APPENDIX H

Qualitative Sample Characteristics
and Chain-of-Custody Forms
for Perimeter Monitoring

PRE-CONSTRUCTION PERIMETER MONITORING
QUALITATIVE SAMPLE CHARACTERISTICS FORMS—JULY 2014

QUALITATIVE SAMPLE CHARACTERISTICS

Page 1 of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	7-14-17	Boeing PL2	SD-PER 301

Coordinates		Water Depth					Time
North	East	Depth	Unit	Rep	Gear		
196473	1274633	24.5	f t	1	0.2 Grab		846

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace worms % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter

SD-PER301-0714 Initials: GSM

QSC Form

Date: 7 / 14 /2017 Time: 846

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	7-14-14	Boeing PL2	SD-PER 301

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196476	1274643	24.6	f	t	2	0.2 Grab	903

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	CSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: — % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 301

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196478	1274638	24.0	f t	3	0.2 Grab	917

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
8	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____
NM NM

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____
NM NM

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: barnacles and angular ballast rock on surface

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196409	1274779	25.2	f t	1	0.2 Grab	937

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
strong river current
sticks on surface and throughout depth
Clam shells in core

AMEC Proj. BP2 Perimeter
SD-PER302-0714 Initials: GSM
QSC Form
Date: 7/14/2014 Time: 937

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196417	1274773	24.4	f t	2	0.2 Grab	951

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose (Loose) Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: trace worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196416	1274767	24.3	f t	3	0.2 Grab	1004

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: B3 - water hard

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196259	1274854	12.6	f	t	1	0.2 Grab	1022

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	CSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other w/ ~~fe~~ iron oxide staining

Major Constituent **(Circle major & underline modifying)**
(Fine) ~~Medium~~ NM Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Algae on surface w/ trace seaweed

AMEC Proj. BP2 Perimeter

SD-PER303-0714 Initials: CSM

QSC Form

Date: 7 / 14 /2014 Time: 1022

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196257	1274853	12.7	f	t	2	0.2 Grab	1034

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: trace sea grass on surface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196264	1274856	12.4	f t	3	0.2 Grab	1044

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196185	1275031	13.5	f	t	1	0.2 Grab	1256

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	SSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: barnacles on surface and shrimp
Woody Material below surface

AMEC Proj. BP2 Perimeter
SD-PER304-0714 Initials: SSM
Metals/TOC/PCB (not homogenized)
Date: 7/14/2014 Time: 1256

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196190	1275031	14.0	f	t	2	0.2 Grab	1306

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196183	1275027	13.4	f t	3	0.2 Grab	1314

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 305

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196940	1275097	7.1	f	t	1	0.2 Grab	1329

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter

SD-PER305-0714 Initials: GSM

QSC Form

Date: 7/14/2014 Time: 1329

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 305

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196034	1275099	6.9	f	t	2	0.2 Grab	1339

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: trace seaweed

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 305

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195041	1275101	7.7	f t	3	0.2 Grab	1348

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196012	1275273	19.4	f	t	1	0.2 Grab	1447

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter

SD-PER306-0714 Initials: GSM

QSC Form

Date: 7/14/2014 Time: 1447

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 326

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196013	1275278	20.1	f	t	2	0.2 Grab	1504

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other w/ orange iron oxide staining

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: trace polychaets

Amar/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196020	1275281	21.1	f	t	3	0.2 Grab	1513

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GJM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195872	1275271	14.9	f	t	1	0.2 Grab	852

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	SSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: plant Material throughout

AMEC Proj. BP2 Perimeter
SD-PER307-0714 Initials: SSM
QSC Form
Date: 7 / 15 / 2014 Time: 852

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195874	1275275	20.6	f	t	2	0.2 Grab	0901

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195872	1275279	20.0	f	t	3	0.2 Grab	912

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195866	1275273	18.1	f t	1	0.2 Grab	935

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 - water haul
926 attempt 2 - poor penetration
camera lost overboard
gravel @ base of grab

AMEC Proj. BP2 Perimeter
SD-PER327-0714 Initials: GSM
QSC Form
Date: 7/15/2014 Time: 935

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195859	127528	17.9	f	t	2	0.2 Grab	945

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: plant material @ depth w/ sticks

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195859	1275274	16.9	f	t	3	0.2 Grab	959

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: attempt 1 poor penetration - reject

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195829	1275490	27.1	f	t	1	0.2 Grab	1024

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive (Gray) Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Abundant plant material throughout w/ trace cobbles

AMEC Proj. BP2 Perimeter
SD-PER308-0714 Initials: GSM
QSC Form
Date: 7/5/2014 Time: 1024

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195826	1275484	25.6	f	t	2	0.2 Grab	1032

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GSM			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
trace gravel on surface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195830	1275486	25.9	f	t	3	0.2 Grab	1540

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	CSM			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: 3-4" crab on surface
+ trace shell fragments, barnacles, and sticks
trace sticks and gravel throughout

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	7-15-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195659	1275547	17.8	f	t	1	0.2 Grab	1057

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
plant material below surface

AMEC Proj. BP2 Perimeter
SD-PER309-0714 Initials: GSM
QSC Form
Date: 7 / 15 /2014 Time: 1057

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195655	1275550	17.1	f	t	2	0.2 Grab	1105

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195662	1275552	17.4	f	t	3	0.2 Grab	1112

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: plant material below surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 310

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
			f	t	1	0.2 Grab	1220

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
	c	m	GSR			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: station under Jorgensen dredge barge

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 311

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195406	1275678	13.8	f	t		0.2 Grab	1226

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER311-0714 Initials: GSM
QSC Form
Date: 7/15/2014 Time: 1226

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 319

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195411	1275682	13.4	f	t	2	0.2 Grab	1234

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GSA			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 311

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195407	1275684	14.9	f	t	3	0.2 Grab	1245

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: trace shell fragments

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196219	1274834	4.6	f	t	1	0.2 Grab	1105

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: abundant seaweed

photo recd: SD PER 304 RI

AMEC Proj. BP2 Perimeter
SD-PER312-0714 Initials: GSM
QSC Form
Date: 7/14/2012 Time: 11-5

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196225	1274838	4.9	f	t	2	0.2 Grab	1118

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Abundant seaweed on surface

photo records SD PER 304R2

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196224	1274835	5.3	f	t	3	0.2 Grab	1130

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	CJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: abundant gravel

photo label reads SD-PER-304 R3

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195992	1275091	2.9	f t	1	0.2 Grab	1408

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Abundant Seaweed

AMEC Proj. BP2 Perimeter
SD-PER313-0714 Initials: GJM
QSC Form
Date: ___/___/2012 Time: ____

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195989	1275089	3.4	f t	2	0.2 Grab	1413

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: abundant seaweed

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-14-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195991	1275094	3.9	f t	3	0.2 Grab	1427

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Abundant Seaweed

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194404	1276147	5.0	f	t	1	0.2 Grab	1306

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter

SD-PER401-0714 Initials: _____

QSC Form

Date: ____/____/2014 Time: 1306

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 401

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194402	1276134	6.9	f t	2	0.2 Grab	1316

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GLM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: algae and plants on surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194403	1276140	6.8	f	t	3	0.2 Grab	1324

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Some plant matter on surface

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194314	1275994	13.0	f	t	1	0.2 Grab	1348

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSN			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER402-0714 Initials: GSN
QSC Form
Date: 7/14/2014 Time: 1348

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194313	1275985	12.8	f	t	2	0.2 Grab	1358

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacle on surface
trace worms below surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194 309	1275991	12.9	f	t	3	0.2 Grab	1403

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194315	1276095	14.1	f	t	1	0.2 Grab	1430

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	LJM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: large stick on surface
abundant plant debris throughout

AMEC Proj. BP2 Perimeter
SD-PER403-0714 Initials: _____
QSC Form
Date: ___/___/2014 Time: _____

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194307	1276094	13.9	f	t	2	0.2 Grab	1437

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-15-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194315	1276087	14.2	f	t	3	0.2 Grab	14:43

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194228	1275947	18.8	f t	1	0.2 Grab	828

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
9	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive (Gray) Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
trace seaweed on surface

AMEC Proj. BP2 Perimeter
SD-PER404-0714 Initials: ____
QSC Form
Date: ___/___/2014 Time: 828

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 424

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194229	1275942	17.9	f	t	2	0.2 Grab	837

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: seaweed on surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 454

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194224	1275947	19.1	f	t	J	0.2 Grab	848

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	CSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Seaweed on surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194226	1276045	25.1	f	t	1	0.2 Grab	906

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
0	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
2 shrimp on surface
trace seaweed on surface

AMEC Proj. BP2 Perimeter
SD-PER405-0714 Initials: GSM
QSC Form
Date: 7/14/2014 Time: 906

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-16-14	Boeing PL2	SD-PER 405

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194228	1276038	24.7	f t	2	0.2 Grab	915

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: single shell fragment on surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194228	1276043	24.5	f	t	3	0.2 Grab	924

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GLO			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: single shell fragment on surface

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194227	1276151	21.4	f	t	1	0.2 Grab	944

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	CJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1 shrimp on surface
trace sticks on surface

AMEC Proj. BP2 Perimeter

SD-PER406-0714 Initials: _____

QSC Form

Date: 7 / 14 /2014 Time: 944

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194229	1276141	21.7	f	t	2	0.2 Grab	952

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: 1 shell on surface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194226	1276144	21-9	f	t	3	0.2 Grab	1002

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GRM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194231	1276152	20.5	f	t	1	0.2 Grab	1015

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
0	c	m	bsm			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER426-0714 Initials: _____
QSC Form
Date: 7 / 14 /2014 Time: 1015

mms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194231	1276148	20.1	f	t	2	0.2 Grab	1025

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	BJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: abundant barnacles on a large stick

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	7-16-14	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194227	1276139	21.6	f	t	3	0.2 Grab	1036

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GOM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: several mussels on surface
trace sticks on surface and 1 shrimp

Amin\Field Forms\QSC

PRE-CONSTRUCTION PERIMETER MONITORING
QUALITATIVE SAMPLE CHARACTERISTICS FORMS—SEPTEMBER 2014

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 101

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199743	1271445	23.2	f t	1	0.2 Grab	1342

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, wood

AMEC Proj. BP2 Perimeter
SD-PER101-0914
QSC Form
Initials: _____
Date: 9/15/2014 Time: _____

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 101

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
199747	1271444	23.9	f t	2	0.2 Grab	1401

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
13	c m	[illegible]			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, worms, twigs, leaves, grass

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 101

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199742	1271447	22.4	f	t	3	0.2 Grab	1440

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	CJN			rainy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 1419 poor penetration
attempt 2 1438 poor penetration
attempt 3

twigs, worms, shells

Amm\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 102

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199652 199655	1271397	31.4	f t	1	0.2 Grab	1252

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			p. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, wood, worms

AMEC Proj. BP2 Perimeter
SD-PER102-0914
QSC Form
Initials: GJM
Date: 9 / 16 /2014 Time: 1252

Amr\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 102

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199653	1271395	31.3	f t	2	0.2 Grab	1304

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	csm			p. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shell, wood, grass, leaves, worms, twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 102

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199656	1271395	31.3	f t	3	0.2 Grab	1212

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Wood, twigs, worms

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14 9/17/14	Boeing PL2	SD-PER 103

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199657	1271499	26.1	f	t	1	0.2 Grab	1212

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GSM			p. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 – no recovery – tooth in jaws – no sediment
attempt 2 – poor penetration
attempt 3 – no recovery
attempt 4 – poor recovery
no sample

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 103

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199661	1271498	18.9	f	t	1	0.2 Grab	748

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
24	c m	CSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, shells, leaves
grass, worms

AMEC Proj. BP2 Perimeter
SD-PER103-0914
QSC Form
Initials: CSM
Date: 9/17/2014 Time: 748

AmerlField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 103

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199660	1271499	18.5	f	t	2	0.2 Grab	804

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
25	c m	GIM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 poor penetration
attempt 2 good - disturb area from previous grab
shells, twigs, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 10 3

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199658	1271500	19.1	f t	3	0.2 Grab	821

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
25	c m	GSM			p. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
attempt 1 empty grab
wood, scrap metal, shells
barnacles, glass jar worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 104

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199571	1271352	29.8	f	t	1	0.2 Grab	1330

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GCM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shells, worms, wood

Amen\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 104

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199565	1271350	31.9	f t	2	0.2 Grab	1341

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	ccn			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, shells, worms
leaves, grass

AMEC Proj. BP2 Perimeter
SD-PER104-0914
QSC Form
Initials: SSM
Date: 9/15/2014 Time: 1370

...\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 104

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199571	1271349	29.9	f	t	3	0.2 Grab	1355

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Twigs, leaves, metal, wood

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 105

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199573	1271449	31.2	f t	)	0.2 Grab	1413

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, twigs, leaves, worms

AMEC Proj. BP2 Perimeter
SD-PER105-0914
QSC Form
Initials: GSM
Date: 9/16/2014 Time: 1413

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 105

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199571	1271444	30.5	f	t	2	0.2 Grab	1426

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
leaves, worms, twig, grass

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-16-14	Boeing PL2	SD-PER 105

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
1995071 199571	1271446	30.9	f t	3	0.2 Grab	1435

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GIM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, wood, shells, leaves barnacles

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 106

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199430	1271456	26.8	f	t	1	0.2 Grab	1143

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSD			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, Shells, gravel
worms, twigs
Clam

AMEC Proj. BP2 Perimeter
SD-PER106-0014
QSC Form
Initials: GSD
Date: ___/___/2014 Time: 1143

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 106

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199434	1271455	25.9	f	t	2	0.2 Grab	1200

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSA			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-25-14	Boeing PL2	SD-PER 106

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199430	1271456	26.2	f t	3	0.2 Grab	1214

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacles, shells, twigs, leaves, leaks, worms

Amin\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 126

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199 436	1271457	27.6	f t	1	0.2 Grab	1238

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, shells, twigs, worms,

AMEC Proj. BP2 Perimeter
SD-PER126-0914
QSC Form
Initials: _____
Date: ___/___/2014 Time: _____

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 126

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
199433	1271453	26.3	f t	2	0.2 Grab	1300

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shrimp. shells worm) grass, twigs

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 126

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199433	1271458	25.3	f t	3	0.2 Grab	1318

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: TRACE % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Scrap metal, shells, twigs, worms

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198393	1272557	21.1	f t	1	0.2 Grab	1010

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
twigs, barnacles, leaves
warm

AMEC Proj. BP2 Perimeter
SD-PER201-0914
QSC Form
Initials: GSM
Date: 9/16/2014 Time: 1010

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198398	1272557	28.2	f t	2	0.2 Grab	1025

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GXM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, leaves, grass
worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198395	1272560	28.5	f t	3	0.2 Grab	1037

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: leaves, roots, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 202

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198118	1272922	23.3	f	t	1	0.2 Grab	1153

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, shells, twigs

AMEC Proj. BP2 Perimeter
SD-PER202-0914
QSC Form
Initials: GSM
Date: 9/19/2014 Time: 1153

Amr\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 202

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198121	1272923	—	f	t	2	0.2 Grab	1209

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJN			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: current too strong to get water depth
Shells, twigs, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 202

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198123	1272924	26.0	f	t	3	0.2 Grab	1223

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			p-cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
strong current
Shells, barnacles, fish, worms.

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 203

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198133	1272621	11.2	f t	1	0.2 Grab	1012

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shells, twigs, grass, leaves

AMEC Proj. BP2 Perimeter
SD-PER203-0914
QSC Form
Initials: GSM
Date: 9/17/2014 Time: 1012

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 203

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198131	1272634 1272624	11.8	f t	2	0.2 Grab	1022

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
11	c m	GW			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twig worms

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 203

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198137	1272621		f	t	3	0.2 Grab	1032

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, twigs, roots, worms

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 204

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197914	1273013	27.3	f t	1	0.2 Grab	1342

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			partly cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
twigs, leaves, worms

AMEC Proj. BP2 Perimeter
SD-PER204-0914
QSC Form
Initials: GSM
Date: 9/17/2014 Time: 1342

i Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 204

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
197914	1273011	26.9	f t	2	0.2 Grab	1356

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
11	c m	asn			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twig, worms, grass

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 204

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197919	1273017	27.1	f t	3	0.2 Grab	1411

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** traces % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms, twigs, leaves

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197723	1273383	25.2	f	t	1	0.2 Grab	1244

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GM			P. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, twigs, leaves
worms

AMEC Proj. BP2 Perimeter
SD-PER205-0914
QSC Form
Initials: GM
Date: 9/19/2014 Time: 1244

Amnl\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197721	1273380	257	f	t	2	0.2 Grab	1300

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			g cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
strong current
twigs, leaves, worms

Artint/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197722	1273380	25.2	f	t	3	0.2 Grab	1315

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GJM			P cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, shells, clam, worm

Amin\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 206

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197704	1273137	8.0	f t	1	0.2 Grab	848

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
25	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, shells, twigs

AMEC Proj. BP2 Perimeter
SD-PER206-0914
QSC Form
Initials: GSM
Date: 9/17/2014 Time: 848

Admin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 206

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197704	1273139	8.3	f	t	2	0.2 Grab	904

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GJM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shell S, twig S, grass

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 206

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197706	1273135	8.9	f t	3	0.2 Grab	912

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
algae, twigs, shells

Amir/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 207

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197504	1273487	26.3	f	t	1	0.2 Grab	1336

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
grass, wood, twigs, worms

AMEC Proj. B?2 Perimeter
SD-PER207-0914
QSC Form
Initials: ___
Date: ___/___/2014 Time: ___

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 207

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197502	1273482	25.4	f	t	2	0.2 Grab	1348

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GJM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Worms, twigs leaves

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 207

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197498	1973487	25.2	f	t	3	0.2 Grab	1409

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-25-14	Boeing PL2	SD-PER 208

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197341	1273796	25.0	f	t	1	0.2 Grab	1552

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) 0 %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Leaves on surface

AMEC Proj. BP2 Perimeter
SD-PER208-0914
QSC Form
Initials: GSM
Date: 9/25/2014 Time: _____

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-25-14	Boeing PL2	SD-PER 208

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197344	1273790	25.5	f	t	2	0.2 Grab	1606

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
8	c m	GSA			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive (Gray) Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet (Moist) Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive (Gray) Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-25-14	Boeing PL2	SD-PER 208

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197343	1273798	25.5	f	t	3	0.2 Grab	1617

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GJN			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Red rock crab on surface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9/17/2014	Boeing PL2	SD-PER 209

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197313	1273589	14.2	f t	1	0.2 Grab	1053

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
0	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other red-brown

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
branch,
Collected sample in undistrub area

AMEC Proj. BP2 Perimeter
SD-PER209-0914
QSC Form
Initials: GSM
Date: 9/17/2014 Time: 1053

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 209

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197307	1273588	12.8	f	t	2	0.2 Grab	1104

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other Red-brown

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacles

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 209

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197310	1273584	13.0	f	t	3	0.2 Grab	1112

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other Red brown

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
147084	1273949	21.2	f	t	1	0.2 Grab	1220

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacles, shells, worms

AMEC Proj. BP2 Perimeter
SD-PER210-0914
QSC Form
Initials: GSM
Date: 9/22/2014 Time: 1220

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197087	1273951	22.2	f	t	2	0.2 Grab	1230

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
root, Clam shell, twigs, worms

AmnlField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197087	1273943	22.3	f	t	3	0.2 Grab	1241

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: - 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms, shell
roots, twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 211

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196834	1274301	21.9	f	t	1	0.2 Grab	1026

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shells, barnacles
twigs, worms

AMEC Proj. BP2 Perimeter
SD-PER211-0914
QSC Form
Initials: GSM
Date: 9/22/2014 Time: 1026

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 211

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196844	1274301	21.7	f	t	2	0.2 Grab	1045

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSA			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 poor penetration
attempt 2 good
barnacles, twigs, shells, worms, leaf

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 211

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196841	1274301	21.4	f	t	3	0.2 Grab	1054

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	SDM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, shells, grass, worms, leaves

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 212

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196824	1274129	13.8	f t	1	0.2 Grab	1155

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GMM			sloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other Red-brown

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
attempt 1 no recovery
attempt 2 good
twigs, shells

AMEC Proj. BP2 Perimeter
SD-PER212-0914
QSC Form
Initials: GMM
Date: 9 / 17 /2014 Time: 1155

eld Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 212

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196821	1274128	13.9	f	t	2	0.2 Grab	1209

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other Red-brown

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
attempt 1 stick in jaws - lost sediment - reject
attempt 2 good
brick fragment

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 212

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196 824	1274131		f t	3	0.2 Grab	1218

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 10 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other Red brown

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Collected Sample from undistrubed area
loss of water & sediment in middle of gravel
barnacles, shells telephone cord twig
worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER213

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196681	1274381	25.9	f	t	1	0.2 Grab	1236

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			P. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: TRACE % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
wood, ceramic, skills
worms, glass

AMEC Proj. BP2 Perimeter
SD-PER213-0914
QSC Form
Initials: GSM
Date: 9/17/2014 Time: 1236

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 213

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196675	1274380	25.3	f t	2	0.2 Grab	1252

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GJM			P. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** TRACE % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: attempt 1 debris in jaws - leakage - loss sediment
attempt 2 good
Shells, wood, twigs, etc

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-17-14	Boeing PL2	SD-PER 213

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196679	1274377	27.0	f t	3	0.2 Grab	1301

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			P. cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms, shells, twigs, grass

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 230

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197088	1273946	23.2	f	t	1	0.2 Grab	1253

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
	c	m	GVM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, shells, leaves, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 230

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197089	1273950	23.8	f	t	2	0.2 Grab	1305

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, worms

AMEC Proj. BP2 Perimeter
SD-PER230-0914
QSC Form
Initials: GSM
Date: 9/22/2014 Time: 1253

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 230

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197088	1273944	24.2	f	t	3	0.2 Grab	1346

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments: attempt 1 too far off station - reject
shells, worms, twigs.

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 371

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196476	1274637	17.3	f	t	1	0.2 Grab	1227

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacles, leaves, roots, sho[illegible]
twigs

AMEC Proj. BP2 Perimeter
SD-PER3 11-0914
QSC Form
Initials: [illegible]
Date: __/__/2014 Time: [illegible]

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 301

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196478	1274639	19.0	f t	2	0.2 Grab	1241

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, worms, twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 301

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196478	1274633	22.0	f	t	3	0.2 Grab	1252

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

leaves, grass, twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196410	1274773	21.0	f t	1	0.2 Grab	1310

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSA			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shell pieces, grass, twigs

AMEC Proj. BP2 Perimeter
SD-PER302-0914
QSC Form
Initials: _____
Date: 9/12/2014 Time: 1310

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 302

9-12-14

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196408	1274774	21.0	f	t	2	0.2 Grab	1321

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	CSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Sticks, twigs, leaves, worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 303 302

9-12-14

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196415	1274771	21.0	f	t	3	0.2 Grab	1327

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, grass, worms, roots

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196262	1274852	17.8	f	t	1	0.2 Grab	820

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs

AMEC Proj. BP2 Perimeter
SD-PER303-0914
QSC Form
Initials: GSM
Date: 9 / 11 /2014 Time: 820

Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196264	1274850	18.0	f	t	2	0.2 Grab	832

Penetration			Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit						
18	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196259	1274849	16.9	f	t	3	0.2 Grab	841

Penetration			Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit						
11	c	m	GM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 6 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp roots

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196188	1275030	18.6	f t	1	0.2 Grab	1346

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
1 2	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, leaves, twigs

AMEC Proj. BP2 Perimeter
SD-PER304-0914
QSC Form
Initials: GSM
Date: 9 / 12 /2014 Time: 1346

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196187	1275022	18.0	f t	2	0.2 Grab	1400

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	CJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: twigs, grass, leaves, worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 304

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196192	1275029	18.9	f	t	3	0.2 Grab	1412

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSH			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
worms, leaves, grass.

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 305

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196040	1275099	17.6	f	t	1	0.2 Grab	857

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments: twigs, worms
roots, gravel

AMEC Proj. BP2 Perimeter
SD-PER305-0914
QSC Form
Initials: GSM
Date: 9/11/2014 Time: 857

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 305

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196042	1275101	18.7	f t	2	0.2 Grab	909

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
[illegible]

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
146034	1275100	16.8	f	t	3	0.2 Grab	920

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	SJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, roots, grass, worms

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 306

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196018	1275278	24.3	f t	1	0.2 Grab	742

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, twigs roots
lenses of black sand
worms)

AMEC Proj. BP2 Perimeter
SD-PER306-0914
QSC Form
Initials: GSM
Date: 9/14/2014 Time: 742

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 306

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196017	1275276	246	f t	2	0.2 Grab	755

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
11	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, worms, shells, grass
pockets of black sand

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196012	1275275	25.0	f	t	3	0.2 Grab	803

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	CJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, leaves, worms, roots
Pockets of Black Sand

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195868	1275275	17.1	f t	1	0.2 Grab	817

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
wood, plastic, grass, beehive?
2cm black silt layer, leaves,
worms

AMEC Proj. BP2 Perimeter
SD-PER307-0914
QSC Form
Initials: GSM
Date: 9/15/2014 Time: 817

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195864	1275275	16.9	f t	2	0.2 Grab	831

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass, leaves
Black silt layer (uniform)

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195864	1275273	16.7	f t	3	0.2 Grab	844

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 – no sediment
attempt 2
Shells, twigs, grass, wood, leaves

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195829 195828	1275488	28.2	f t	1	0.2 Grab	949

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
11	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER308-0914
QSC Form
Initials: GSM
Date: 9 / 15 /2014 Time: _____

twigs, gravel, leaves
shell
worms
Black sand [illegible]

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195829	1275488	29.0	f t	2	0.2 Grab	1001

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	GW			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shell?, twigs, leaves, worms
Disturbance in grab from previous grab

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 308

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195831	1275486	28.1	f	t	3	0.2 Grab	1014

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSN			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Worms, shells, twigs, roots

Amnt\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195654	1275551	16.3	f t	1	0.2 Grab	735

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs

AMEC Proj. BP2 Perimeter
SD-PER309-0914
QSC Form
Initials: GSM
Date: 9/16/2014 Time: 735

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195658	1275550	16.9	f	t	2	0.2 Grab	747

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shells, roots, grass

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 309

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
195654	1275549	17.1	f t	3	0.2 Grab	800

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	SZN			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Sample Collected in deep section of grab (sloping material)
twigs, wood

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195589	1275760	20.1	f t	1	0.2 Grab	819

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, rare worms

AMEC Proj. BP2 Perimeter
SD-PER310-0914
QSC Form
Initials: GM
Date: 9 / 16 /2014 Time: 819

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195591	1275766	19.9	f t	2	0.2 Grab	834

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GIR			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms, twigs, roots

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-16-14	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195590	1275763	21.0	f t	3	0.2 Grab	847

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GDM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Worms, grass

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-16-14	Boeing PL2	SD-PER 311

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195399	1275683	19.7	f	t	1	0.2 Grab	912

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
17	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, leaves, shells
worms

AMEC Proj. BP2 Perimeter
SD-PER311-0914
QSC Form
Initials: GJM
Date: 9/16/2014 Time: 912

Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-16-14	Boeing PL2	SD-PER 311

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195406	1275685	21.0	f t	2	0.2 Grab	931

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
0	c m	GSM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shells, worms, grass

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-16-14	Boeing PL2	SD-PER 311

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195403	1275679	21.6	f t	3	0.2 Grab	941

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, leaves, grass, worms, twigs

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196225	1274832	15.1	f	t	1	0.2 Grab	730

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
grass, twigs

AMEC Proj. BP2 Perimeter
SD-PER312-0914
QSC Form
Initials: GM
Date: 9 / 11 /2014 Time: 730

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
196224	1274835	15.1	f t	2	0.2 Grab	741

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
1/2	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196227	1274830	15.0	f	t	3	0.2 Grab	752

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GRS			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, twigs, roots

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195990	1275090	116	f t	1	0.2 Grab	944

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	ESN			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass roots

AMEC Proj. BP2 Perimeter
SD-PER313-0914
QSC Form
Initials: ____
Date: ___/___/2014 Time: _____

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195987	1275088	11.2	f	t	2	0.2 Grab	955

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	BSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Shrimp, eelgrass

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195991	1275091	10.8	f t	3	0.2 Grab	1008

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass, worms

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195870	1275282	19.0	f t	1	0.2 Grab	858

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
barnacles, shells, leaves, twigs

AMEC Proj. BP2 Perimeter
SD-PER327-0914
QSC Form
Initials: GSM
Date: 9/15/2014 Time: 858

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195865	1275276	18.0	f t	2	0.2 Grab	912

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	[illegible]			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, twig, grass
10cm Black silt layer

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-15-14	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195868	1275278	18.6	f t	3	0.2 Grab	926

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shells, grass

Amnl\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194401	1276137	11.1	f	t	1	0.2 Grab	730

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Shrimp, Shells, twigs, worms

AMEC Proj. BP2 Perimeter
SD-PER401-0914
QSC Form
Initials: GSM
Date: 9/19/2014 Time: 730

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194401	1276138	10.6	f	t	2	0.2 Grab	745

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 4D1

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194394	1276140	10.5	f	t	3	0.2 Grab	758

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, grass twigs

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194313	1275994	15.8	f	t	1	0.2 Grab	902

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Crab Shells, twigs
worm

AMEC Proj. BP2 Perimeter
SD-PER402-0914
QSC Form
Initials: GSM
Date: 9/19/2014 Time: 919

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194316	1275996	16.0	f	t	2	0.2 Grab	917

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shell, twigs, worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 402

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194316	1275992	17.5	f t	3	0.2 Grab	929

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
leaves, twigs, shells, worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194316	1276091	17-?	f	t	1	0.2 Grab	951

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, leaves, worms

AMEC Proj. BP2 Perimeter
SD-PER403-0914
QSC Form
Initials: GSM
Date: 9 / 19 /2014 Time: 951

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194311	1276092	16.8	f	t	2	0.2 Grab	1004

Penetration				Sulfide	VOA	Weather	Fines (%)
Depth	Unit		Initials				
12	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shells, worms

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194312	1276089	17.2	f	t	3	0.2 Grab	1016

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSA			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, shell, leaves, twigs, worms

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 404

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194227	1275940	7.2	f	t	1	0.2 Grab	816

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSN			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, twigs, leaves, grass

AMEC Proj. BP2 Perimeter
SD-PER404-0914
QSC Form
Initials: GSN
Date: 9/19/2014 Time: 816

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194226	1275944	8.1	f t	2	0.2 Grab	826

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	BJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, worms,

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-19-14	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194225	1275945	10.5	f t	3	0.2 Grab	836

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, normal

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194231	1276042	20.9	f	t	1	0.2 Grab	806

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	CSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
leaves, wood, twigs

AMEC Proj. BP2 Perimeter
SD-PER405-0914
QSC Form
Initials: CSM
Date: 9/22/2014 Time: 806

Amun\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-19	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194230	1276042	19.9	f	t	2	0.2 Grab	821

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
shrimp, fish, worms, shells, leaves

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194230	1276047	19.9	f	t	3	0.2 Grab	830

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells leaves, twigs, worms.

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Pag

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identificatio Number
	9-22-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194230	1276147	16.0	f	t	1	0.2 Grab	854

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GJM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, leaves, worms

AMEC Proj. BP2 Perimeter
SD-PER406-0914
QSC Form
Initials: GJM
Date: 9/22/2014 Time: 854

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194226	1276147	15.5	f	t	2	0.2 Grab	909

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, shrimp shells, worm

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194231	1276151	14.9	f	t	3	0.2 Grab	933

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			Rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: attempt 1 poor penetration
leaves, twigs, worms

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194 226	1276 145	14.7	f	t	1	0.2 Grab	944

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass, leaves, worms

AMEC Proj. BP2 Perimeter
SD-PER426-0914
QSC Form
Initials: GM
Date: 9/22/2014 Time: 944

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-22-14	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194225	1276141	15.0	f	t	2	0.2 Grab	954

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
shells, twigs, leaves

Amm\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	4-22-14	Boeing PL2	SD-PER 426

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194228	1276144	14.9	f t	3	0.2 Grab	1004

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
12	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells twigs worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	09/10/14	Boeing PL2	SD-PER 501 R1

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199209	1273431		f t		0.2 Grab	1057

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
10	c m	RHS				

Surficial Wood Estimate: 8in Core

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Reject - sediment not used in sample

AMEC Proj. BP2 Perimeter
SD-PER501-0914
QSC Form
Initials: ____
Date: ____/____/2014 Time: _____

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	09/10/14	Boeing PL2	SD-PER 501 R2

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199209	1273431	<5ft	f t		~~0.2~~ Grab	1108

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	RHG				

Surficial Wood Estimate: 8in Core

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments: 2nd core had 10cm of fine silts
Sample taken completely from 2nd core

Amec/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9/10/14	Boeing PL2	SD-PER 502

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199054	1273390	36	f t	1	~~0.2 Grab~~ 8 in Core	1212

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	RHG				

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium (Coarse) (Gravel) Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium (Coarse) (Gravel) Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER502-0914
QSC Form
Initials: RHG
Date: 9/10/2014 Time: _____

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	09/10/14	Boeing PL2	SD-PER 503

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198899	1273335	~8.4	f t	1	0.2 Grab	1315

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	RHG				

Surficial Wood Estimate: 8inCore

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** Plant T % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium (Coarse) (Gravel) Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER503-0914
QSC Form
Initials: RHG
Date: ___/___/2014 Time: _____

Anton\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198818	1273280	14.1	f t	1	0.2 Grab	1025

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, worm 1

AMEC Proj. BP2 Perimeter
SD-PER504-0914
QSC Form
Initials: GSM
Date: 9/10/2014 Time: 1025

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198820	1273282	12.9	f t	2	0.2 Grab	1036

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grab did not close on first cast
- too moss.

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198822	1273284	18.5	f t	3	0.2 Grab	1047

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 505

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198658	1273132	12.9	f t	1	0.2 Grab	1309

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
roots leaves

AMEC Proj. BP2 Perimeter
SD-PER505-0914
QSC Form
Initials: GSM
Date: 9 / 10 /2014 Time: 1309

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 505

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198655	1273132	11.9	f	t	2	0.2 Grab	1322

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
moss. roots 1 worms
red-brown tensel in subsurface

Admin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 505

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198661	1273133	12.0	f	t	3	0.2 Grab	1330

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 5 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Shells, mussels, barnacles
worms, crabs

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-11-14	Boeing PL2	SD-PER 506

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198486	1272919	15.3	f	t	1	0.2 Grab	1314

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass

AMEC Proj. BP2 Perimeter
SD-PER506-0914
QSC Form
Initials: GSM
Date: 9/11/2014 Time: 1314

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-11-14	Boeing PL2	SD-PER 506

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198485	1272916	15.8	f t	2	0.2 Grab	1326

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, twigs, roots

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-11-14	Boeing PL2	SD-PER 506

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198489	1272918	15.6	f t	3	0.2 Grab	1339

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
sticks, grass & worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 507

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198475	1272782	18.4	f t	1	0.2 Grab	1219

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
22	c m	[illegible]			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, leaves worms

AMEC Proj. BP2 Perimeter
SD-PER507-0914
QSC Form
Initials: GJM
Date: 9 / 11 /2014 Time: 1219

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 507

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198478	1272778	17.9	f	t	2	0.2 Grab	1236

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	SJD			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp
grass, rocks

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 507

Coordinates		Water Depth		Rep	Gear	Time
North	East	Depth	Unit			
198479	1272774	17.7	f t	3	0.2 Grab	1252

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
14	c m	GJA			rainy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs
worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 508

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198871	1273191	18.4	f t	1	0.2 Grab	901

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	SJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER508-0914
QSC Form
Initials: SJM
Date: 9 / 10 /2014 Time: 901

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 508

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198870	1273193	16.7	f	t	2	0.2 Grab	916

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	BRN			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 508

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198869	1273196	16.1	f t	3	0.2 Grab	930

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 509

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198834	1273227	16.9	f	t	1	0.2 Grab	947

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) trace %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER509-0914
QSC Form
Initials: GSM
Date: 9 / 10 /2014 Time: 947

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 509

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198834	1273225	17.5	f t	2	0.2 Grab	959

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 509

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198832	1273231	17.0	f	t	3	0.2 Grab	1009

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	csm			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9 - 10 - 14	Boeing PL2	SD-PER 510

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198767	1273117	14.9	f t	1	0.2 Grab	1149

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Calm leaves

AMEC Proj. BP2 Perimeter
SD-PER510-0914
QSC Form
Initials: GSM
Date: 9 / 10 /2014 Time: 1149

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 510

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198768	1273120	14.4	f t	2	0.2 Grab	1200

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** 1 (twigs) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaved
Black lenses of silt btw 2cm + 6cm below surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 510

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198766	1273119	14.3	f	t	3	0.2 Grab	1211

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** / % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
roots, leaves

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 511

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198701	1273146	13.5	f t	1	0.2 Grab	1231

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: leaves, twig, grass

AMEC Proj. BP2 Perimeter
SD-PER511-0914
QSC Form
Initials: GJM
Date: 9 / 10 /2014 Time: 1231

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 511

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198696	1273145	19.5	f t	2	0.2 Grab	1241

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Shrimp, root, worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 511

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198697	1273147	13.6	f t	3	0.2 Grab	1251

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, root, worms

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 512

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198649	1272601	8.6	f	t	1	0.2 Grab	1138

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
12	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: twigs

AMEC Proj. BP2 Perimeter
SD-PER512-0914
QSC Form
Initials: GSM
Date: 1/ /2014 Time: 1138

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 512

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198649	1272598	9.0	f	t	2	0.2 Grab	1147

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	ESM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, roots

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 512

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198651	1272599	8.9	f t	3	0.2 Grab	1159

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
1.5	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: Shells, leaves
worms

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 513

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198708	1273051	18.3	f t	1	0.2 Grab	1454

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, twigs
worms

AMEC Proj. BP2 Perimeter
SD-PER513-0914
QSC Form
Initials: GJM
Date: 9/10/2014 Time: 1454

Amerifield Form 3.3.5

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9/10/14	Boeing PL2	SD-PER 513

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198707	1273056	18.0	f	t	2	0.2 Grab	1506

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass

Amim\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 513

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198707	1273053	18.4	f t	3	0.2 Grab	1516

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass twigs

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 514

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198632	1273063	21.1	f	t	1	0.2 Grab	1046

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, grass, roots

AMEC Proj. BP2 Perimeter
SD-PER514-0914
QSC Form
Initials: GSM
Date: 9/12/2014 Time: 1046

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 514

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198636	1273062	21.1	f t	2	0.2 Grab	11:09

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GIM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
attempt 1 grab did not close
attempt 2 poor penetration
attempt 3 green
Shrimp leaves, grass, roots

AminiField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 514

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198630	1273064	21.1	f t	3	0.2 Grab	1123

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	Gon			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp, worms, leaves, roots, twigs

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 515

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198639	1272974	24.7	f t	1	0.2 Grab	750

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			sandy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
worms root

AMEC Proj. BP2 Perimeter
SD-PER515-0914
QSC Form
Initials: GSM
Date: 9 / 12 /2014 Time: 750

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 515

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198643	1272973	24.7	f t	2	0.2 Grab	802

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GIM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacles / mussel shell / leaves
woody roots

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-12-14	Boeing PL2	SD-PER 515

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198639	1272978	24.8	f	t	3	0.2 Grab	813

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
10	c	m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, leaves, grass
worms

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 516

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198571	1272913	26.1	f	t	1	0.2 Grab	835

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shrimp worms
grass, leaves, twigs

AMEC Proj. BP2 Perimeter
SD-PER516-0914
QSC Form
Initials: GSM
Date: 9/12/2014 Time: 835

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 516

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198571	1272910	24.6	f t	2	0.2 Grab	848

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, roots, grass

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-14	Boeing PL2	SD-PER 516

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198567	1272910	25.0	f t	3	0.2 Grab	859

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
trash

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-17	Boeing PL2	SD-PER 517

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198539	1272880	24.7	f t	1	0.2 Grab	922

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs, grass

AMEC Proj. BP2 Perimeter
SD-PER517-0914
QSC Form
Initials: GSM
Date: 9 / 12 /2014 Time: 922

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-17	Boeing PL2	SD-PER 517

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198541	1272885	25.1	f t	2	0.2 Grab	938

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	CSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments: about 1 grab did not have grass, roots, leaves

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-12-17	Boeing PL2	SD-PER 517

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198542	1272880	24.7	f t	3	0.2 Grab	952

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grass, roots, leaves

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 518

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198600	1272810	14.7	f t	1	0.2 Grab	1421

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
root, grass

AMEC Proj. BP2 Perimeter
SD-PER518-0914
QSC Form
Initials: GSM
Date: 9 / 11 /2014 Time: _____

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 518

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198597	1272812	15.7	f t	2	0.2 Grab	1431

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, roots

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	9-11-14	Boeing PL2	SD-PER 518

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198601	1272815	16.0	f	t	3	0.2 Grab	1442

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
leaves, grass roots

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 525

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198657	1273129	12.7	f t	1	0.2 Grab	1344

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Hung S

AMEC Proj. BP2 Perimeter
SD-PER525-0914
QSC Form
Initials: GSM
Date: ___/___/2014 Time: 1344

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 525

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198659	1273127	13.9	f	t	2	0.2 Grab	1357

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GSN			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** trace % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) ____ %

Comments: grass, twigs (worms)

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	9-10-14	Boeing PL2	SD-PER 525

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198653	1273129	13.8	f t	3	0.2 Grab	1411

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GJM			part cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: trace % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: / % **Debris:** trace % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Shells, twigs, leaves, worms

Amec\Field Forms\QSC

POST-CONSTRUCTION PERIMETER MONITORING
QUALITATIVE SAMPLE CHARACTERISTICS FORMS

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 101

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
149741	1271450	24.2	f t	1	0.2 Grab	1333

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER101-0315 Initials: GSM
QSC Form
Date: 3 / 16 /2015 Time: 1333

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 101

Coordinates		Water Depth				Time
199742 North	East	Depth	Unit	Rep	Gear	
1997412	1271497	24.3	f t	2	0.2 Grab	1345

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSA			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 101

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199742	1271450	24.1	f	t	3	0.2 Grab	1359

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 102

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199653	1271397	26.3	f t	1	0.2 Grab	1125

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Stick protruding from bottom of grab.

AMEC Proj. BP2 Perimeter

SD-PER102-0315 Initials: GSM

QSC Form

Date: 3 / 17 /2015 Time: 1125

Amini\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 102

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199657	1271400	26.3	f	t	2	0.2 Grab	1136

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
17	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (microbes) % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 102

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199653	1271395	26.8	f	t	3	0.2 Grab	1145

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GJA			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 103

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199657	1271502	21.3	f	t	1	0.2 Grab	1042

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (sticks leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Grab appears to have tilted while taking sample. Sample taken from peak.

AMEC Proj. BP2 Perimeter
SD-PER103-0315 Initials: GSM
QSC Form
Date: 3/17/2015 Time: 1042

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 103

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199656	1271499	19.9	f	t	2	0.2 Grab	1053

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 103

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199660	1271504	20.4	f t	3	0.2 Grab	1107

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1103 attempt 1 - reject - several hundred grams piece of steel in jaws
attempt 2 success

AminiField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 104

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199566	1271353	23.4	f	t	1	0.2 Grab	915

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (microbes) % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER104-0315 Initials: GSM
QSC Form
Date: 3/17/2015 Time: 915

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 104

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199568	1271351	23.1	f t	2	0.2 Grab	926

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
28	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 104

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199568	1271354	23.3	f t	3	0.2 Grab	939

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSV			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 105

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199571	1271450	29.9	f t	1	0.2 Grab	1409

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			partly cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER105-0315 Initials: GSM
QSC Form
Date: 3/17/2015 Time: 1409

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 105

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199571	1271445	30.3	f	t	2	0.2 Grab	1422

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	SJD			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

Amm/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 105

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199567	1271449	30.4	f	t	3	0.2 Grab	1431

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	SM			P cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 106

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199430	1271461	22.3	f t	1	0.2 Grab	1336

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
17	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER106-0315 Initials: GSM
QSC Form
Date: 3/19/2015 Time: 1336

AminiField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 106

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
199433	1271463	23.2	f	t	2	0.2 Grab	1350

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 106

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199429	1271458	22.7	f t	3	0.2 Grab	1358

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 126

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199428	1271455	23.2	f t	1	0.2 Grab	1409

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER126-0315 Initials: GSM
QSC Form
Date: 3/19/2015 Time: 1409

Amwt\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 126

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199435	1271461	24.7	f t	2	0.2 Grab	1420

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
70	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AmmField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	3-19-15	Boeing PL2	SD-PER 126

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199435	1271459	24.7	f t	3	0.2 Grab	1431

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSR			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grab appears to be taken adjacent to previous grabs.
Sample taken from undisturbed area

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198393	1272556	27.7	f t	1	0.2 Grab	1245

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (crustacean) % **Debris:** 5 (wood chunk) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER201-0315 Initials: GSM
QSC Form
Date: 3 / 16 /2015 Time: 1245

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198391	1272557	27.7	f t	2	0.2 Grab	1256

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
13	c m	GJN			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 5 (wood chunk) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 201

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198392	1272558	27.8	f t	3	0.2 Grab	1307

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (wood chunk) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (wood stick) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grab appears to be taken in same place as previous sample.

Amec/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 202

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198119	1272927	24.7	f	t	1	0.2 Grab	1237

Penetration Depth	Penetration Unit		Initials	Sulfide	VOA	Weather	Fines (%)
13	c	m	[illegible]			[illegible]	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER202-0315 Initials: [illegible]
QSC Form
Date: 3 / [illegible] /2015 Time: [illegible]

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 202

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198 122	1272928	26.2	f t	2	0.2 Grab	1252

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 (leaves, twigs) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amwl\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-17-15	Boeing PL2	SD-PER 202

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198122	1272925	25.5	f t	3	0.2 Grab	1301

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (sticks, shells) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Admin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 203

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198134	1272621	14.3	f t	1	0.2 Grab	1419

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (sticks shells) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER203-0315 Initials: GSM
QSC Form
Date: 3 / 16 /2015 Time: 1419

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 203

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198134	1272623	14.4	f t	2	0.2 Grab	1428

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (tubeworms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AmmiField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 203

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198139	1272625	15.6	f	t	3	0.2 Grab	1437

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GM			partly	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shells) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (pipe) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grab has a pipe sticking out of bottom.

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 204

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197915	1273009	20.1	f	t	1	0.2 Grab	827

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (flounder) % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER204-0315 Initials: GSM
QSC Form
Date: 3 / 18 /2015 Time: 827

Amnl/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 204

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197918	1273012	21.8	f	t	2	0.2 Grab	843

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	CSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 204

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197918	1273009	21.6	f t	3	0.2 Grab	855

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (crustacean) % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197723	1273389	25.8	f	t	1	0.2 Grab	1031

1273379

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
13	c	m	GJM			partly cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
trace orange flake (possibly metallic) on surface

AMEC Proj. BP2 Perimeter
SD-PER205-0315 Initials: GJM
QSC Form
Date: 3/18/2015 Time: 1031

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 205

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197717	1273378	21.2	f t	2	0.2 Grab	1040

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 205

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197716	1273381	21.1	f	t	3	0.2 Grab	1050

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
14	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 4 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 206

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197708	1273136	8.3	f	t	1	0.2 Grab	912

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace red

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER206-0315 Initials: GSM
QSC Form
Date: 3 / 18 /2015 Time: 912

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 206

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197704	1273135	7.7	f	t	2	0.2 Grab	923

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	GM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (tube worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

_____

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 206

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197709	1273138	8.3	f t	3	0.2 Grab	931

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GJM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 207

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197503	1273480	19.7	f t	1	0.2 Grab	1108

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
sticks are protruding from bottom of grab

AMEC Proj. BP2 Perimeter
SD-PER207-0315 Initials: GSM
QSC Form
Date: 3/18/2015 Time: 1108

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 207

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197498	1273482	19.6	f	t	2	0.2 Grab	1117

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (microbes) % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 207

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197500	1273484	19.9	f t	3	0.2 Grab	1128

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GBM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (tube worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 208

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197349	1273793	23.3	f t	1	0.2 Grab	852

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER208-0315 Initials: GJM
QSC Form
Date: 3 / 19 /2015 Time: 852

mm/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 208

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197345	1273795	22.4	f	t	2	0.2 Grab	906

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 208

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197346	1273790	21.8	f	t	3	0.2 Grab	919

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AmmField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 209

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197313	1273588	12.0	f t	1	0.2 Grab	1211

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 50 (shingle) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other orange flecks

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other orange flecks

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 30 (shingle) % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Sample taken from area not covered by shingle
Brick is buried subsurface

AMEC Proj. BP2 Perimeter
SD-PER209-0315 Initials: GSM
QSC Form
Date: 3 / 18 /2015 Time: 1211

Amu\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 209

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197309	1273587	11.9	f	t	2	0.2 Grab	1222

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 5 (brick) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
subsurface appears to have a brick that is almost completely broken down

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 209

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197312	1273585	12.0	f t	3	0.2 Grab	1232

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other red flakes

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other red and dark red flakes

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 5 (brick) % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Sample taken from peak of grab sample due to blockage of grab.
Sample appears to have bricks breaking down below surface.

Amir/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197084	1273948	24.6	f	t	1	0.2 Grab	1317

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 4 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER210-0315 Initials: GSM
QSC Form
Date: 3 / 18 /2015 Time: 1317

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197088	1273945	24.8	f	t	2	0.2 Grab	1332

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 210

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197087	1273942	25.9	f	t	3	0.2 Grab	1342

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 230

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197086	1273949	26.3	f	t	1	0.2 Grab	1354

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
16	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER230-0315 Initials: GSM
QSC Form
Date: 3 / 18 /2015 Time: 1354

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 230

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
197090	1273943	26.9	f	t	2	0.2 Grab	1403

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-18-15	Boeing PL2	SD-PER 230

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
197087	1273943	26.3	f t	3	0.2 Grab	1413

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GJK			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 211

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196841	1274300	23.9	f t	1	0.2 Grab	1248

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER211-0315 Initials: GSM
QSC Form
Date: 3 / 19 /2015 Time: 1248

Admin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 211

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196840	1274301	23.7	f t	2	0.2 Grab	1259

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell twig) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AmmlField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 211

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196842	1274298	24.0	f t	3	0.2 Grab	1313

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (sticks shells) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amwl\Field Forms\OSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 212

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196822	1274130	7.3	f t	1	0.2 Grab	1042

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (brick) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace red flecks

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: <1 (worm) % **Debris:** <1 (shells) % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
brick and concrete chunks below surface

AMEC Proj. BP2 Perimeter
SD-PER212-0315 Initials: GSM
QSC Form
Date: 3 / 19 /2015 Time: 1042

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 212

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196820	1274128	6.8	f	t	2	0.2 Grab	1053

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GLM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (metal ring) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace red flakes

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace red

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** <1 (brick wood) % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
brick is deteriorating at subsurface level. Sample taken from area not affected by washout

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 212

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196821	1274127	7.2	f t	3	0.2 Grab	1101

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace red flakes

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace red flakes

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** <1 (brick) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 213

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196681	1274377	18.3	f t	1	0.2 Grab	1118

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER213-0315 Initials: GSM
QSC Form
Date: 3/19/2015 Time: 1118

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

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Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 213

Coordinates		Water Depth					Time
196679 North	1274379 East	Depth	Unit		Rep	Gear	
196681	1274377	18.2	f	t	2	0.2 Grab	1128

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
18	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-19-15	Boeing PL2	SD-PER 213

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196677	1274382	18.2	f	t	3	0.2 Grab	1138

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
21	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 301

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196477	1274640	16.2	f t	1	0.2 Grab	1452

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves on top layer and throughout

AMEC Proj. BP2 Perimeter
SD-PER301-0315 Initials: GSM
QSC Form
Date: 3 / 9 /2015 Time: 1452

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 301

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196474	1274641	15.6	f	t	3	0.2 Grab	1501

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 crustacean % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Sample appears to be taken from same spot as previous, leaves present throughout sample. H_2S smell from decomposing debris

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 301

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196473	1274639	16.1	f t	3	0.2 Grab	1524

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: leaves throughout sample.

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196413	1274775	19.8	f t	1	0.2 Grab	1554

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves and shell debris on top layer.
worms in subsurface.
Oily smell, no sheen

AMEC Proj. BP2 Perimeter

SD-PER302-0315 Initials: GSM

QSC Form

Date: 3 / 9 /2015 Time: 1554

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 302

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196416	1274770	20.4	f	t	2	0.2 Grab	1609

Penetration							
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)	
11	c m	GSM			sunny		

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (crustacean) % **Debris:** <1 (twig) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 302

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196409	1274772	20.1	f t	3	0.2 Grab	1620

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	CJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: leafy debris on top layer. decaying leaves in subsurface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196265	1274848	NR	f	t	1	0.2 Grab	1423

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 worm % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER303-0315 Initials: GSM
QSC Form
Date: 2 / 25 /2015 Time: 1423

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 303

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196264	1274851	12.8	f t	2	0.2 Grab	1435

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
15	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 303

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
146261	1274851	11.8	f	t	3	0.2 Grab	1449

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	ESM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 wooden sticks % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196191	1275028	24.3	f t	1	0.2 Grab	1037

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** leaves 10 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 1 worm % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER304-0315 Initials: GSM
QSC Form
Date: 2/27/2015 Time: 1037

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196190	1275026	24.5	f t	2	0.2 Grab	1049

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GM			[illegible]	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** Wooden chunks 5 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 304

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196193	1275025	25.7	f t	3	0.2 Grab	1101

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GJM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** wooden chunks 5 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other black olive

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 5 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 305

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196035	1275096	15.7	f t	1	0.2 Grab	937

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

leaves

Surficial sediment characteristics:

Biological: 0 % **Debris:** 3% % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER305-0315 Initials: GJM
QSC Form
Date: 2 /27 /2015 Time: 937

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-18	Boeing PL2	SD-PER 305

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196036	1275094	16.7	f t	2	0.2 Grab	954

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			Y a.m	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** wooden sticks 2 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 305

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196035	1275100	15.9	f t	3	0.2 Grab	1017

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			rainy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-27-15	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196016	1275274	27.6	f	t	1	0.2 Grab	1224

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	SJN			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 crustacean % **Debris:** wood chunks 5 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** shell & wood 5 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Wood debris hanging out of the bottom of grab

AMEC Proj. BP2 Perimeter
SD-PER306-0315 Initials: SJN
QSC Form
Date: 2/27/2015 Time: 1224

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-27-15	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196 012	1275276	28.4	f	t	2	0.2 Grab	1236

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSR			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 crustacean % **Debris:** wooden bits 2 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 1 worm % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amni\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-27-15	Boeing PL2	SD-PER 306

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196012	1275278	27.3	f	t	3	0.2 Grab	1248

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	BJM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** leaf + wood stick 1 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other 1 red fleck

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195869	1275273	13.1	f t	1	0.2 Grab	1125

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light (Medium) Dark Olive Gray (Brown) Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft (Soft) Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet (Wet) Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium (Dark) Olive (Gray) Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
(Fine) Medium Coarse Gravel Sand (Silt) Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** (None) Trace (<5%) _____ %

Comments:
2 crustaceans & leaves on top layer
twigs sticking out of bottom of grab

AMEC Proj. BP2 Perimeter
SD-PER307-0315 Initials: GSM
QSC Form
Date: 3/9/2015 Time: 1125

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195870	1275279	14.2	f t	2	0.2 Grab	1138

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves throughout grab and sticking out of bottom

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 307

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195865	1275281	12.4	f t	3	0.2 Grab	1151

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
19	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 20 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: 0 % **Debris:** 20 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
Seal leaves and twigs throughout sample and protruding from bottom of sample

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195867	1275280	12.4	f t	1	0.2 Grab	1236

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 20 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 20 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1229 attempt 1 poor penetration - reject
attempt 2 - good
leaves and twigs throughout grab and sticking out of bottom.
sample smells like rotting debris

AMEC Proj. BP2 Perimeter
SD-PER327-0315 Initials: GSM
QSC Form
Date: 3 / 9 /2015 Time: 1236

Amini\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 327

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195871	1275276	11.9	f	t	2	0.2 Grab	1247

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves, twigs, and 2 barnacles on top layer
leaves in subsurface as well.

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 327

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195865	1275279	11.8	f t	3	0.2 Grab	1258

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: leaves and twigs throughout sample and sticking out of bottom.

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 398

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
145830	1275486	28.0	f t	1	0.2 Grab	1003

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt (trace) Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1/2" layer of sand on top

AMEC Proj. BP2 Perimeter
SD-PER308-0315 Initials: GSM
QSC Form
Date: 3 / 9 /2015 Time: 1003

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 308

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195830	1275484	27.3	f	t	2	0.2 Grab	1018

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	JSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light **Medium** Dark Olive Gray **Brown** Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel **Sand** Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft **Medium Stiff** Stiff Very Stiff Hard

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium **Dark** Olive Gray Brown **Black** Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand **Silt** Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
tube worms on top layer, wood debris caught in jaws of grab
1/2" layer of fine sand on top

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 308

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
145835	1275487	28.0	f t	3	0.2 Grab	1030

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1" layer of fine sand on top
clam and worms in subsurface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 309

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195653	1275549	14.0	f t	1	0.2 Grab	1317

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GTM			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
twigs & tube worms on surface,
twigs and leaves subsurface.

AMEC Proj. BP2 Perimeter
SD-PER309-0315 Initials: GTM
QSC Form
Date: 3/9/2015 Time: 1317

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 309

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195657	1275547	13.9	f t	2	0.2 Grab	1328

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSR			Sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
leaves on top layer,
1" layer of brown silt and fine sand on top

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-9-15	Boeing PL2	SD-PER 309

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195656	1275545	13.6	f t	3	0.2 Grab	1342

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GJM			sunny	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 2 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: 1/2" layer of sand on top. decaying leaves at subsurface with strong odor (H_2S)

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195588	1275760	23.2	f t	1	0.2 Grab	1327

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER310-0315 Initials: GSM
QSC Form
Date: 2/27/2015 Time: 1327

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195593	1275760	22.7	f t	2	0.2 Grab	1340

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Admin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 310

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195587	1275764	23.3	f t	3	0.2 Grab	1350

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 2 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: barnacles growing on gravel

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 311

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195401	1275681	21.)	f t		0.2 Grab	1406

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER311-0315 Initials: GSM
QSC Form
Date: 2 / 27 /2015 Time: 1406

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 311

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195403	1275687	20.8	f t	2	0.2 Grab	1417

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 crustacean % **Debris:** 2 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 5 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 311

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
195401	1275685	20.2	f	t	3	0.2 Grab	1424

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 15 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 15 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
wood chunks and leaves in sample. Appears that grab was taken in same spot as previous due to empty part of grab

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 312

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196224	1274835	11.2	f t	1	0.2 Grab	1305

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER312-0315 Initials: GJM
QSC Form
Date: 2 / 26 /2015 Time: 1305

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 312

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
196221	1274835	11.0	f	t	2	0.2 Grab	1314

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 312

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196226	1274836	10.7	f t	3	0.2 Grab	1323

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 5 (algae, waterbugs) % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light **Medium** Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand **Silt** Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose **Loose** Medium Dense Dense Very Dense

Silt / Clay - Very Soft **Soft** Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium **Dark** Olive **Gray** Brown Black Other trace orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand **Silt** Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
145984	1275095	12.9	f t	1	0.2 Grab	850

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** wooden chips 10% % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other trace orange flecks

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER313-0315 Initials: GSM
QSC Form
Date: 2/27/2015 Time: 8:50

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195986	1275092	11.0	f t	2	0.2 Grab	902

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
	c m	GSM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

wooden twigs & leaves

Biological: 0 % **Debris:** 10 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-27-15	Boeing PL2	SD-PER 313

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
195986	1275090	11.1	f t	3	0.2 Grab	913

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
15	c m	GJVI			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % (caves, wood bits) **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other trace orange

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** 0% wooden chunks % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194399	1276138	19.1	f	t	1	0.2 Grab	1111

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 2 (one crustacean) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER401-0315 Initials: GSM
QSC Form
Date: 2 / 25 /2015 Time: 1111

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194402	1276140	14.9	f	t	2	0.2 Grab	1133

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
14	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-25-15	Boeing PL2	SD-PER 401

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194397	1276137	15.8	f	t	3	0.2 Grab	1148

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
14	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	5-25-15	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	1275994 East	Depth	Unit		Rep	Gear	
194317	1275934	19.5	f	t	1	0.2 Grab	1325

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GSM			1 cm	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 2 (leaves) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER402-0315 Initials: GSM
QSC Form
Date: 2/25/2015 Time: 1325

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-25-15	Boeing PL2	SD-PER 402

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194312	1275990	18.4	f	t	2	0.2 Grab	1340

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
14	c	m	GSM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 2 (shells) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
	2-25-15	Boeing PL2	SD-PER 402

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194312	1275994	17.9	f t	3	0.2 Grab	1354

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			rain	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 (clear) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 403

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194315	1276091	17.1	f t	1	0.2 Grab	1414

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			Cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER403-0315 Initials: GSM
QSC Form
Date: 2 / 25 /2015 Time: 1414

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 403

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194 313	1276089	16.3	f t	2	0.2 Grab	1429

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 403

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194317	1276087	15.0	f	t	3	0.2 Grab	1441

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 (leaf) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194223	1275940	14.7	f t	1	0.2 Grab	853

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER404-0315 Initials: GSM
QSC Form
Date: 2 / 26 /2015 Time: 853

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194222	1275947	16.5	f t	2	0.2 Grab	906

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 404

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194224	1275944	17.1	f t	3	0.2 Grab	921

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
19	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 (wood chunk) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 405

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194229	1276047	23.2	f t	1	0.2 Grab	941

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
15	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 crustacean % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: _____ % **Debris:** _____ % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER405-0315 Initials: GSM
QSC Form
Date: 2 / 26 /2015 Time: 941

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 405

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194230	1276049	23.5	f t	2	0.2 Grab	956

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
14	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 405

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194234	1276044	23.5	f	t	3	0.2 Grab	1008

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
13	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 5 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194227	1276145	20.5	f	t	1	0.2 Grab	1129

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER406-0315 Initials: GSM
QSC Form
Date: 2 / 26 /2015 Time: 1129

Amin/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-25-15	Boeing PL2	SD-PER 406

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194233	1276146	19.8	f	t	2	0.2 Grab	1140

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
16	c m	ESR			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 1 wooden stick % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 406

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194230	1276145	20.3	f t	3	0.2 Grab	1151

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 2 leaves % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
grab sample was partially missing due to previous grab sample in same location

Amin/Field Forms/QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 426

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
194224	1276148	19.7	f t	1	0.2 Grab	1204

Penetration		Initials	Sulfide	VOA	Weather	Fines (%)
Depth	Unit					
17	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 1 crustacean % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER426-0315 Initials: GSM
QSC Form
Date: 2/26/2015 Time: 1204

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2-26-15	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194227	1276142	20.1	f	t	2	0.2 Grab	1217

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
16	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	2/26/15 4-26-15	Boeing PL2	SD-PER 426

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
194221	1276146	19.4	f	t	3	0.2 Grab	1230

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** Leaf % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WAN NAD83 Survey ft	03/20/15	Boeing PL2	SD-PER 501

Coordinates		Water Depth					Time
North	East	Depth	Unit	Rep	Gear		
199193.8	1273437.2	10	f t		0.2 ~~Grab~~ Hand Core		1000

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	RHG				

Surficial Wood Estimate: _____ X 5 = _____ %

Contact Points

Surficial sediment characteristics:

Biological: N % **Debris:** N % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: N % **Debris:** N % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
Thick surface layer of silt over silty gravel very loose

AMEC Proj. BP2 Perimeter

SD-PER501-0315 Initials: [illegible]

QSC Form

Date: 3/20/2015 Time: 1000

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	03/20/15	Boeing PL2	SD-PER 502

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
199044.2	1273402	7.0	f t		~~0.2 Grab~~	1025

Penetration			Sulfide	VOA	Weather	Fines (%)
Depth	Unit	Initials				
10	c m	RG				

Surficial Wood Estimate: Hand Core

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
4in of silt overlying sand gravel

AMEC Proj. BP2 Perimeter
SD-PER502-0315 Initials: [illegible]
QSC Form
Date: 3 / 20 /2015 Time: 1025

Amun\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3/20/15	Boeing PL2	SD-PER 503

Coordinates		Water Depth				Time
198899 North	East	Depth	Unit	Rep	Gear	
198 299	1283335	8	f t		0.2 Grab	1035

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	RG				

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
4 inches of silt over sand gravel

AMEC Proj. BP2 Perimeter
SD-PER503-0315 Initials: RG
QSC Form
Date: 3 / 20 /2015 Time: 1035

AmmField Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
198817 North	East	Depth	Unit	Rep	Gear	
198816	1273284	17.0	f t	1	0.2 Grab	1059

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GJM			f cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1/4" layer of silt on surface

AMEC Proj. BP2 Perimeter
SD-PER504-0315 Initials: GJM
QSC Form
Date: 3/16/2015 Time: 1059

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198817	1273283	17.5	f t	2	0.2 Grab	1108

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
11	c m	GSM			P cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 leaf % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light **Medium** Dark Olive Gray **Brown** Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine **Medium** Coarse Gravel **Sand** Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose **Loose** Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet **Wet** Moist Damp Dry

Color **(Circle major & underline modifying)**
Light **Medium** Dark Olive **Gray** Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine **Medium** Coarse Gravel **Sand** Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** **None** Trace (<5%) _____ %

Comments:
trace silt on surface

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 504

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198820	1273280	17.4	f t	3	0.2 Grab	1117

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			g cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1" layer of silt on surface

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 505

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198654	1273128	14.7	f t	1	0.2 Grab	924

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
920 attempt one - poor penetration - reject
attempt 2 success
1/4" layer of silt on top

AMEC Proj. BP2 Perimeter
SD-PER505-0315 Initials: GSM
QSC Form
Date: 3 / 16 /2015 Time: 924

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 505

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198657	1273131	19.4	f t	2	0.2 Grab	932

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
2	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1/8" layer of silt on surface

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 505

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198653	1273132	15.4	f	t	3	0.2 Grab	942

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
20	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1/8" layer of silt on top

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 525

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198660	1273129	16.2	f t	1	0.2 Grab	955

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	GSM			partly	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
925 reject - poor penetration
attempt 2 success
trace silt on top layer

AMEC Proj. BP2 Perimeter
SD-PER525-0315 Initials: GSM
QSC Form
Date: 3 / 16 /2015 Time: 955

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER S25

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198657	1273132	16.0	f	t	2	0.2 Grab	1007

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GJM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1003 attempt 1 reject poor penetration
attempt 2 success
trace silt on top layer

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 525

Coordinates		Water Depth					Time
198654 North	East	Depth	Unit		Rep	Gear	
198655	1273129	15.5	f	t	3	0.2 Grab	1017

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
21	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: 1/8" layer of silt on top

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 506

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198489	1272919	20.6	f	t	1	0.2 Grab	1252

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER506-0315 Initials: GSM
QSC Form
Date: 3 / 13 /2015 Time: 1252

Amn/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 506

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198490	1272917	20.6	f t	2	0.2 Grab	1300

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			partly	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 506

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198491	1272921	20.8	f	t	3	0.2 Grab	1309

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
11	c	m	GSM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 507

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198476	1272782	25.0	f	t	1	0.2 Grab	1105

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
22	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (matting) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER507-0315 Initials: GSM
QSC Form
Date: 3/13/2015 Time: 1105

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 507

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198475	1272775	24.9	f t	2	0.2 Grab	1119

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
19	c m	GSH			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 507

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198479	1272781	24.8	f	t	3	0.2 Grab	1134

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
25	c	m	CM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments: plastic bag hanging out of bottom of grab

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 508

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198872	1273194	12.3	f t	1	0.2 Grab	1435

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	SJH			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER508-0315 Initials: SJH
QSC Form
Date: 3 / 11 /2015 Time: 1435

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 508

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198869	1273192	12.3	f	t	2	0.2 Grab	1445

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
17	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) 10 %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 508

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198870	1273196	12.2	f	t	3	0.2 Grab	1457

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaves) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC, 3500 188th St. SW, Suite 601, Lynnwood, WA 98037, (425) 921-4000

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 509

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198831	1273227	20.1	f	t	1	0.2 Grab	1115

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
15	c	m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (crustacean) % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worm) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER509-0315 Initials: GM
QSC Form
Date: 3/12/2015 Time: 1115

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ___ of ___

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 509

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198835	1273228	20.0	f	t	2	0.2 Grab	1130

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GM			partly	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 509

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198836	1273230	19.8	f	t	3	0.2 Grab	1142

Penetration						
Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
19	c m	GM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaf) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 510

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198768	1273123	17.9	f t	1	0.2 Grab	1255

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			Windy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
1249 attempt 1 reject poor penetration - bark chips
1255 attempt 2 success

AMEC Proj. BP2 Perimeter
SD-PER510-0315 Initials: GSM
QSC Form
Date: 3 / 11 /2015 Time: 1255

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 519

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198769	1273117	17.5	f t	2	0.2 Grab	1305

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	CJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 510

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
196769	1273121	17.0	f t	3	0.2 Grab	1317

Penetration Depth	Penetration Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	ASM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (barnacle) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 511

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198694	1273144	17.5	f t	1	0.2 Grab	845

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	ESM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (wood sticks) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (wood) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
debris sticking out of grab.

AMEC Proj. BP2 Perimeter

SD-PER511-0315 Initials: ESM

QSC Form

Date: ____/____/2015 Time: 845

Amec\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER S 11

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198698	1273143	18.0	f t	2	0.2 Grab	856

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-16-15	Boeing PL2	SD-PER 511

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198698	1273147	17.5	f	t	3	0.2 Grab	906

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

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QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 512

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198649	1272600	13.0	f t	1	0.2 Grab	1003

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER512-0315 Initials: GSM
QSC Form
Date: 3/12/2015 Time: 1003

Am\n\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 512

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198652	1272598	13.7	f	t	2	0.2 Grab	1012

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 512

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198653	1272602	13.1	f	t	3	0.2 Grab	1022

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
15	c m	GSM			y cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacle and twigs on surface

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 513

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198706	1273051	16.6	f t	1	0.2 Grab	1333

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % (wood chunks) **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER513-0315 Initials: GSM
QSC Form
Date: 3 / 11 /2015 Time: 1333

Anwm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 513

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198706	1273055	16.3	f	t	2	0.2 Grab	1343

1273054

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
12	c	m	csm			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (leaves, twigs) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-11-15	Boeing PL2	SD-PER 513

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
148703	1273052	16.1	f t	3	0.2 Grab	1352

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
16	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shells) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\Q5C

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft		Boeing PL2	SD-PER 514

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198633	1273065	19.7	f t	1	0.2 Grab	1320

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GJM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (Shell) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER514-0315 Initials: GJM
QSC Form
Date: 3 / 3 /2015 Time: 1320

Amen\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 514

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198631	1273065	19.2	f	t	2	0.2 Grab	1330

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
14	c	m	GSA			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amn\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 514

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198631	1273066	18.9	f t	3	0.2 Grab	1341

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 515

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198643	1272980	22.0	f	t	1	0.2 Grab	829

Penetration							
Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (crustacean) % **Debris:** <1 (barnacles, shell) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER515-0315 Initials: GSM
QSC Form
Date: 3/13/2015 Time: 829

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 515

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198642	1272978	22.6	f t	2	0.2 Grab	841

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
19	c m	GSR			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 barnacle % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 515

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198640	1272973	22.9	f t	3	0.2 Grab	854

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
14	c m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % Shell **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 516

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198572	1272917	24.0	f t	1	0.2 Grab	910

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
10	c m	SJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (stick, shell) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 (shells) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER516-0315 Initials: SJM
QSC Form
Date: 3 / 13 /2015 Time: 910

Amwl/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 516

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198570	1272913	24.2	f	t	2	0.2 Grab	923

1272912

Penetration Depth	Unit		Initials	Sulfide	VOA	Weather	Fines (%)
16	c	m	BJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shells) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amer\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 516

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198573	1272915	24.3	f t	3	0.2 Grab	933

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
13	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** <1 stick % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 517

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198539	1272881	24.8	f t	1	0.2 Grab	1027

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
18	c m	GM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:
1020 attempt 1 - reject - poor penetration
attempt 2 success

AMEC Proj. BP2 Perimeter
SD-PER517-0315 Initials: SJR
QSC Form
Date: 3/13/2015 Time: 1027

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 517

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198542	1272883	23.5	f t	2	0.2 Grab	1038

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
20	c m	GSM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** <1 (stick) % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
stick protruding from bottom of grab

Amm\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-13-15	Boeing PL2	SD-PER 517

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198541	1272878	24.9	f	t	3	0.2 Grab	1049

Penetration				Sulfide	VOA	Weather	Fines (%)
Depth	Unit		Initials				
19	c	m	GJM			cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (twigs) % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:

Amin\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 518

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198597	1272811	21.8	f t	1	0.2 Grab	922

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	GSM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 (shell) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 (worms) % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) ____ %

Comments:

AMEC Proj. BP2 Perimeter
SD-PER518-0315 Initials: GSM
QSC Form
Date: 3 / 12 /2015 Time: 922

Amec/Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 518

Coordinates		Water Depth					Time
North	East	Depth	Unit		Rep	Gear	
198602	1272812	21.1	f	t	2	0.2 Grab	934

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
17	c m	CJM			8 cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: 0 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color **(Circle major & underline modifying)**
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent **(Circle major & underline modifying)**
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: <1 % **Debris:** <1 % **Oil Sheen:** None Trace (<5%) _____ %

Comments:
barnacle and wood chips on top layer.
worms and twigs subsurface

Amsr\Field Forms\QSC

QUALITATIVE SAMPLE CHARACTERISTICS

Page ____ of ____

Coordinate Datum	Date (mm/dd/yy)	Project Location	Sample Identification Number
WA State Plane, N Zone, NAD 83, Survey Ft	3-12-15	Boeing PL2	SD-PER 518

Coordinates		Water Depth				Time
North	East	Depth	Unit	Rep	Gear	
198604	1272813	21.0	f t	3	0.2 Grab	945

Penetration Depth	Unit	Initials	Sulfide	VOA	Weather	Fines (%)
12	c m	GSM			p cloudy	

Surficial Wood Estimate:

Contact Points _____ X 5 = _____ %

Surficial sediment characteristics:

Biological: <1 (tubeworm) % **Debris:** <1 (woodchunks) % **Oil Sheen:** None Trace (<5%) ____ %

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Subsurface sediment characteristics:

Density / Consistency

Sand / Gravel - Very Loose Loose Medium Dense Dense Very Dense

Silt / Clay - Very Soft Soft Medium Stiff Stiff Very Stiff Hard

Moisture
Very Wet Wet Moist Damp Dry

Color (Circle major & underline modifying)
Light Medium Dark Olive Gray Brown Black Other _____

Major Constituent (Circle major & underline modifying)
Fine Medium Coarse Gravel Sand Silt Clay _____

Minor Constituent with trace
Fine Medium Coarse Gravel Sand Silt Clay _____

Biological: 0 % **Debris:** 0 % **Oil Sheen:** None Trace (<5%) 10 %

Comments:
grab appears to have been taken directly adjacent to previous grab

Admin\Field Forms\QSC

PRE- AND POST-CONSTRUCTION PERIMETER MONITORING CHAIN-OF-CUSTODY FORMS

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

YR24

AMEC Proj. BP2 Perimeter
COC Number 063

Recorded by: GSM
Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER301-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 846	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER302-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 937	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER303-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 1022	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER312-0714 Initials: GSM COC Form Date: 7/14/2012 Time: 1105	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER304-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 1256	Date: Time:	1		1	1
AMEC Proj. BP2 Perimeter SD-PER305-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 1329	Date: Time:	1	1		1
AMEC Proj. BP2 Perimeter SD-PER313-0714 Initials: GSM COC Form Date: 7/14/2012 Time: 1425	Date: Time:	1			1

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Transported By	Received By
Name: [illegible] Date: 7/15/14 Time: 1600	NM	Name: [illegible] Date: 7/15/14 Time: 1600
Name: Date: Time:		Name: Date: Time:
Name: Date: Time:		Name: Date: Time:

Admin\Field Forms\COC

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter

COC Number 064

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER306-0714 Initials: GSM COC Form Date: 7/14/2014 Time: [illegible]	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				
Place Sample ID Label Here or Write ID Number Here	Date: Time:				

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Transported By	Received By
Name: [signature] Date: 7/15/14 Time: 1600	NM	Name: [signature] Date: 7/15/14 Time: 1600
Name: Date: Time:		Name: Date: Time:
Name: Date: Time:		Name: Date: Time:

Admin\Field Forms\COC

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 065

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER307-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 852	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER327-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 935	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER308-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 1024	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER309-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 1057	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER311-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 1226	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER401-0714 Initials: GSM COC Form Date: 7/15/2014 Time: 1306	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER402-0714 Initials: GSM COC Form Date: 7/14/2014 Time: 1348	Date: Time:	1			1

7/15/2014

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Transported By	Received By
Name: [signature] Date: 7/15/14 Time: 1600	NM	Name: [signature] Date: 7/15/14 Time: 1600
Name: Date: Time:		Name: Date: Time:
Name: Date: Time:		Name: Date: Time:

Admin\Field Forms\COC

YR74 : 000004

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 067

Recorded by: GSM
Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER404-0714 Initials: [illegible] COC Form 7/16/2014 Date: 7/14/2014 Time: 828	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER405-0714 Initials: [illegible] COC Form 7/16/2014 Date: 7/14/2014 Time: 905	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER406-0714 Initials: [illegible] COC Form 7/16/2014 Date: 7/14/2014 Time: 944	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER426-0714 Initials: [illegible] COC Form 7/16/2014 Date: 7/14/2014 Time: 1015	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: [signature] 7/16/14 @ 1245	Name: [signature]
Date:	Date: 7/16/14
Time:	Time: 12:45

Admin\Field Forms\COC

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 071

Recorded by: GSM

Checked by. _____

		Analysis Containers			
		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER312-0914 COC Form Initials: GSM Date: 9/11/2014 Time: 730	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER303-0914 COC Form Initials: GSM Date: 9/11/2014 Time: 820	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER305-0914 COC Form Initials: GSM Date: 9/11/2014 Time: [illegible]	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER313-0914 COC Form Initials: [illegible] Date: 9/11/2014 Time:	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER512-0914 COC Form Initials: [illegible] Date: 9/11/2014 Time: 1138	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER507-0914 COC Form Initials: GSM Date: 9/11/2014 Time: 12:19	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER506-0914 COC Form Initials: GSM Date: 9/11/2014 Time: [illegible]	Date: Time:	1			Number of containers 1

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec com ph. 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 9/11/14	Date: 9/11/14
Time: 1550	Time: 1550

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 072

Recorded by: GJM

Checked by: _____

		Analysis Containers			
		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER518-0914 COC Form Initials: GJM Date: 9 / 11 /2014 Time: _____	Date: Time:	✓			Number of containers 1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time.				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 9/11/14	Date: 9/11/14
Time: 1550	Time: 1556

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 074

Recorded by: GSM

Checked by: _____

	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER306-0914 COC Form Initials: GSM Date: 9/14/2014 Time: 742	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER307-0914 COC Form Initials: GSM Date: 9/15/2014 Time: 817	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER327-0914 COC Form Initials: GSM Date: 9/15/2014 Time: 858	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER308-0914 COC Form Initials: GSM Date: 9/15/2014 Time: [illegible]	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER106-0914 COC Form Initials: GSM Date: __/__/2014 Time: [illegible]	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER126-0914 COC Form Initials: [illegible] Date: __/__/2014 Time: 738	Date: Time: 1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER101-0914 COC Form Initials: GSM Date: 9/[illegible]/2014 Time: [illegible]	Date: Time: 1			Number of containers 1

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis

Relinquished By	Transported By	Received By
Name: [signature] Date: 9/15/14 Time: 1604		Name: Rich Hudson Date: 9/15/14 Time: 1600
Name: Date: Time:		Name: Date: Time:
Name: Date: Time:		Name: Date: Time:

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

ZA46

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 075

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER309-0914 COC Form Initials: GSM Date: 9/16/2014 Time: 735	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER310-0914 COC Form Initials: GSM Date: 9/16/2014 Time: 819	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER311-0914 COC Form Initials: GSM Date: 9/16/2014 Time: 912	Date: me:	1			1
AMEC Proj. BP2 Perimeter SD-PER201-0914 COC Form Initials: GSM Date: 9/16/2014 Time: 1010	ate: me:	1			1
AMEC Proj. BP2 Perimeter SD-PER102-0914 COC Form Initials: GSM Date: __/__/2014 Time: [illegible]	te: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER104-0914 COC Form Initials: [illegible] Date: __/__/2014 Time: [illegible]	Date: me:	1			1
AMEC Proj. BP2 Perimeter SD-PER105-0914 COC Form Initials: [illegible] Date: __/__/2014 Time: [illegible]	ate: ime:				

ARI Proj[illegible] Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 9/16/14	Date: 9/16/14
Time: 1550	Time: 1550

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

ZA66

Recorded by: GSM

Checked by: _____

AMEC Proj. BP2 Perimeter
COC Number 076

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER103-0914 COC Form Initials: GSM Date: 9/17/2014 Time: 748	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER206-0914 COC Form Initials: GSM Date: 9/17/2014 Time: 848	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER203-0914 COC Form Initials: GSM Date: 9/17/2014 Time: [illegible]	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER209-0914 COC Form Initials: GSM Date: 9/17/2014 Time: 1053	Date: Time:	X			1
AMEC Proj. BP2 Perimeter SD-PER212-0914 COC Form Initials: GSM Date: 9/17/2014 Time: 1155	Date: Time:	X			1
AMEC Proj. BP2 Perimeter SD-PER213-0914 COC Form Initials: GSM Date: 9/17/2014 Time: [illegible]	Date: Time:	X			1
AMEC Proj. BP2 Perimeter SD-PER204-0914 COC Form Initials: GSM Date: 9/17/2014 Time: 1342	Date: Time:	X			1

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph. 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 9/17/14	Date: 9.17.14
Time: 1520	Time: 1520

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

ZB07

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 077

Recorded by: GSM

Checked by: _____

		Analysis Containers			
		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER401-0914 COC Form Initials: GSM Date: 9/19/2014 Time: 730	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER404-0914 COC Form Initials: GSM Date: 9/19/2014 Time: 816	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER402-0914 COC Form Initials: GSM Date: 9/19/2014 Time: 919	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER403-0914 COC Form Initials: GSM Date: 9/19/2014 Time: 951	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER202-0914 COC Form Initials: GSM Date: 9/19/2014 Time: 1153	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER205-0914 COC Form Initials: GSM Date: 9/19/2014 Time: [illegible]	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER207-0914 COC Form Initials: GSM Date: 9/19/2014 Time: [illegible]	Date: Time:	1			Number of containers 1

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Transported By	Received By
Name [illegible] Date 9/19/14 Time 1515		Name [illegible] Date 9/19/14 Time 1515
Name Date Time		Name Date Time
Name Date Time		Name Date Time

Admin\Field Forms\COC

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 078

Recorded by: GSM

Checked by: _____

		Analysis Containers			
		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER405-0914 COC Form Initials: GSM Date: 9/22/2014 Time: 806	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER406-0914 COC Form Initials: GSM Date: 9/22/2014 Time: 854	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER426-0914 COC Form Initials: GSM Date: 9/22/2014 Time: 944	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER211-0914 COC Form Initials: GSM Date: 9/22/2014 Time: 1026	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER210-0914 COC Form Initials: GSM Date: 9/22/2014 Time: [illegible]	Date: Time:	1			Number of containers 1
AMEC Proj. BP2 Perimeter SD-PER230-0914 COC Form Initials: GSM Date: 9/22/2014 Time: 1253	Date: Time:	1			Number of containers 1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: [illegible]	Name: [illegible]
Date: 9/22/14	Date: 9/22/14
Time: 1515	Time: 1515

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 079

Recorded by: GSN

Checked by: _____

		Analysis Containers			
		SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn), TOC, and PCBs (by Aroclor)	Archive		
AMEC Proj. BP2 Perimeter SD-PER208-0914 COC Form Initials: GSN Date: 9/26/2014 Time: 15:52	Date: Time:	1			Number of containers 1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Rob Gilman	Name:
Date: 9/26/14 1008	Date: 9-26-14
Time: 1008	Time: 1007

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 081

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER401-0315 Initials: GSM COC Form Date: 2/25/2015 Time: 1111	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER402-0315 Initials: GSM COC Form Date: 2/25/2015 Time: 1325	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER403-0315 Initials: GSM COC Form Date: 2/25/2015 Time: [illegible]	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (c.neirby@amec com ph 206-838-8469)

Samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name: [signature]
Date: 2-25-15	Date: 2/25/15
Time: 1601	Time: 1601

AMEC
3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

ZX96

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 082

Recorded by: GJM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER404-0315 Initials: GJM COC Form Date: 2 / 26 /2015 Time: 853	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER405-0315 Initials: GJM COC Form Date: 2 / 26 /2015 Time: 911	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER406-0315 Initials: GJM COC Form Date: 2 / 26 /2015 Time: 1129	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER426-0315 Initials: GJM COC Form Date: 2 / 26 /2015 Time: 1:04	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER312-0315 Initials: GJM COC Form Date: 2 / 26 /2015 Time: 1305	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER303-0315 Initials: [illegible] COC Form Date: 2 / 26 /2015 Time: 1423	Date: Time:	1			1
Place sample ID label or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Gary Maxwell	Name: Chris Atwell
Date: 2-26-15	Date: 2-26-15
Time: 1549	Time: 1549

IEC
0 188th St. SW, Suite 601
nwood,WA 98037
5) 921-4000

2725

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 083

Recorded by: GSM

Checked by: _____

	Date / Time	SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER313-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 850	Date / Time	1			1
AMEC Proj. BP2 Perimeter SD-PER305-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 937	Date / Time	1			1
AMEC Proj. BP2 Perimeter SD-PER304-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 1037	Date / Time	1			1
AMEC Proj. BP2 Perimeter SD-PER306-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 1224	Date / Time	1			1
AMEC Proj. BP2 Perimeter SD-PER310-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 1327	Date / Time	1			1
AMEC Proj. BP2 Perimeter SD-PER311-0315 Initials: GSM COC Form Date: 2/27/2015 Time: 1406	Date / Time	1			1
Place Sample ID Label Here or Write ID Number Here	Date / Time				Number of containers

Laboratory Sample Receipt

Project Manager—Kelly Bottem
C Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 921-4023)
C Laboratory Coordinator—Crystal Neirby (tal.neirby@amec com ph 206-838-8469)

liment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name:
Date: 2-27-15	Date: 2-27-15
Time: 1554	Time: 1554

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

2256

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 084

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn), TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER308-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1003	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER307-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1125	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER327-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1236	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER309-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1317	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER301-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1452	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER302-0315 Initials: GSM COC Form Date: 3/9/2015 Time: 1554	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name:
Date: 3-10-15	Date: 3/10/15
Time: 15 24	Time: 1524

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CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 085

Recorded by: CSM

Checked by. _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER510-0315 Initials: GSM COC Form Date: 3/11/2015 Time: 1255	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER513-0315 Initials: GSM COC Form Date: 3/11/2015 Time: 1333	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER508-0315 Initials: GSM COC Form Date: 3/11/2015 Time: 1435	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Gary Maxwell	Name:
Date: 3-11-15	Date: 3/11/15
Time: 1550	Time: 1550

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Lynnwood,WA 98037
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CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 086

Recorded by: GM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER518-0315 Initials: GSM COC Form Date: 3 / 12 /2015 Time: 1122	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER512-0315 Initials: GSM COC Form Date: 3 / 12 /2015 Time: [illegible]	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER509-0315 Initials: [illegible] COC Form Date: / /2015 Time: 1115	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name: [signature]
Date: 3-12-15	Date: 3/12/15
Time: 1619	Time: 1619

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
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AA46

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 087

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER515-0315 Initials: GSM COC Form Date: 3/13/2015 Time: 829	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER516-0315 Initials: GSM COC Form Date: 3/13/2015 Time: 910	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER517-0315 Initials: GSM COC Form Date: 3/13/2015 Time:	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER507-0315 Initials: GSM COC Form Date: 3/13/2015 Time: 1105	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER506-0315 Initials: GSM COC Form Date: 3/13/2015 Time:	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER514-0315 Initials: GSM COC Form Date: 3/13/2015 Time:	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager---Kelly Bottem
AMEC Project Manager---Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator---Crystal Neirby (crystal neirby@amec com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Gary Mutnell	Name:
Date: 3-13-15	Date: 3/13/15
Time: 1451	Time: 1451

Admin\Field Forms\COC

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Lynnwood,WA 98037
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CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 088

Recorded by: GSM

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER511-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: 845	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER505-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: 924	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER525-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: [illegible]	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER504-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: 1059	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER201-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: 1245	Date Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER101-0315 Initials: GSM COC Form Date: 3 / 16 /2015 Time: 1333	Date. Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER203-0315 Initials: [illegible] COC Form Date: 3 / 16 /2015 Time: [illegible]	Date: Time:	1			1

Laboratory

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis.

Relinquished By	Received By
Name: Kyle Korbines	Name: [signature]
Date: 3/16/15	Date: 3/16/15
Time: 1545	Time: ~~16~~ 1545

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Lynnwood,WA 98037
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CHAIN OF CUSTODY

AB02

AMEC Proj. BP2 Perimeter
COC Number 089

Recorded by: GSM

Checked by: _____

	Date/Time	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER104-0315 Initials: GSM COC Form Date: 3/17/2015 Time: 915	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER103-0315 Initials: GSM COC Form Date: 3/17/2015 Time: 042	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER102-0315 Initials: GSM COC Form Date: 3/17/2015 Time: 1125	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER202-0315 Initials: [illegible] COC Form Date: 3/[illegible]/2015 Time: [illegible]	Date: Time:	1			1
AMEC Proj. BP2 Perimeter SD-PER105-0315 Initials: GSM COC Form Date: 3/17/2015 Time: 1159	Date: Time:	1			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Kyle Karbines	Name: [illegible]
Date: 3/17/15	Date: 3/17/15
Time: 1523	Time: 1523

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
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AB75

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 090

Recorded by: GSM

Checked by: _____

	Date: / Time:	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER204-0315 Initials: GSM COC Form Date: 3/18/2015 Time: 827		1			1
AMEC Proj. BP2 Perimeter SD-PER206-0315 Initials: GSM COC Form Date: 3/18/2015 Time: 912		1			1
AMEC Proj. BP2 Perimeter SD-PER205-0315 Initials: GSM COC Form Date: 3/18/2015 Time:		1			1
AMEC Proj. BP2 Perimeter SD-PER207-0315 Initials: GSM COC Form Date: 3/18/2015 Time: 1108		1			1
AMEC Proj. BP2 Perimeter SD-PER209-0315 Initials: GSM COC Form Date: 3/18/2015 Time: 1211		1			1
AMEC Proj. BP2 Perimeter SD-PER210-0315 Initials: GSM COC Form Date: 3/18/2015 Time: 1317		1			1
AMEC Proj. BP2 Perimeter SD-PER230-0315 Initials: COC Form Date: 3/18/2015 Time: 13:54		1			1

ARI Project Manager—Kelly Bottem
AMEC Project Manager---Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec com ph. 206-838-8469)

Sediment samples are unhomogenized. Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name:
Date: 3-18-15	Date: 3/18/15
Time: 1520	Time: 1520

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

ABS1 ~~ABH~~

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 091

Recorded by: GSM

Checked by: _____

	Date: / Time:	Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER208-0315 Initials: GSM COC Form Date: 3/19/2015 Time: 852		1			1
AMEC Proj. BP2 Perimeter SD-PER212-0315 Initials: GSM COC Form Date: 3/19/2015 Time: 1042		1			1
AMEC Proj. BP2 Perimeter SD-PER213-0315 Initials: GSM COC Form Date: 3/19/2015 Time: 1118		1			1
AMEC Proj. BP2 Perimeter SD-PER211-0315 Initials: GSM COC Form Date: 3/19/2015 Time: [illegible]		1			1
AMEC Proj. BP2 Perimeter SD-PER106-0315 Initials: GSM COC Form Date: 3/19/2015 Time: 336		1			1
AMEC Proj. BP2 Perimeter SD-PER126-0315 Initials: GSM COC Form Date: 3/19/2015 Time: [illegible]		1			1
Place Sample ID Label or Write ID Number Here					

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff.whitmus@amec.com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal neirby@amec com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: Gary Maxwell	Name: [illegible]
Date: 3-19-15	Date: 3/19/15
Time: 1600	Time: 1600

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3500 188th St. SW, Suite 601
Lynnwood,WA 98037
(425) 921-4000

AB63

CHAIN OF CUSTODY

AMEC Proj. BP2 Perimeter
COC Number 092

Recorded by: _____

Checked by: _____

		Analysis Containers: SMS Metals (As, Cd, Cr, Cu, Pb, Hg, Ag, Zn) TOC, and PCBs (by Aroclor)	Archive		Number of containers
AMEC Proj. BP2 Perimeter SD-PER501-0315 Initials: RG COC Form Date: 3 / 20 /2015 Time: 1000	Date: Time:	X			1
AMEC Proj. BP2 Perimeter SD-PER502-0315 Initials: RG COC Form Date: 3 / 20 /2015 Time: 1025	Date: Time:	X			1
AMEC Proj. BP2 Perimeter SD-PER503-0315 Initials: RG COC Form Date: 3 / 20 /2015 Time: 1035	Date: Time:	X			1
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers
Place Sample ID Label Here or Write ID Number Here	Date: Time:				Number of containers

Laboratory Sample Receipt

ARI Project Manager—Kelly Bottem
AMEC Project Manager—Cliff Whitmus (cliff whitmus@amec com ph 425-921-4023)
AMEC Laboratory Coordinator—Crystal Neirby (crystal.neirby@amec.com ph 206-838-8469)

Sediment samples are unhomogenized Samples must be thoroughly homogenized before analysis

Relinquished By	Received By
Name: [signature]	Name: [signature]
Date: 3/20/15	Date: 3/20/15
Time: 1133	Time: 1133