Hoquiam Drainage - Barrier Inventory Results

Total sites inventoried = 298

Fish use of 298 inventoried sites

Yes, fish bearing = 196
No, non fish bearing = 94
Unable to determine fish use status = 8

Barrier status of 204 fish bearing sites (Fish use = yes and unknown)

Yes, a barrier = 139 No, not a barrier = 20 Unable to determine barrier status = 45

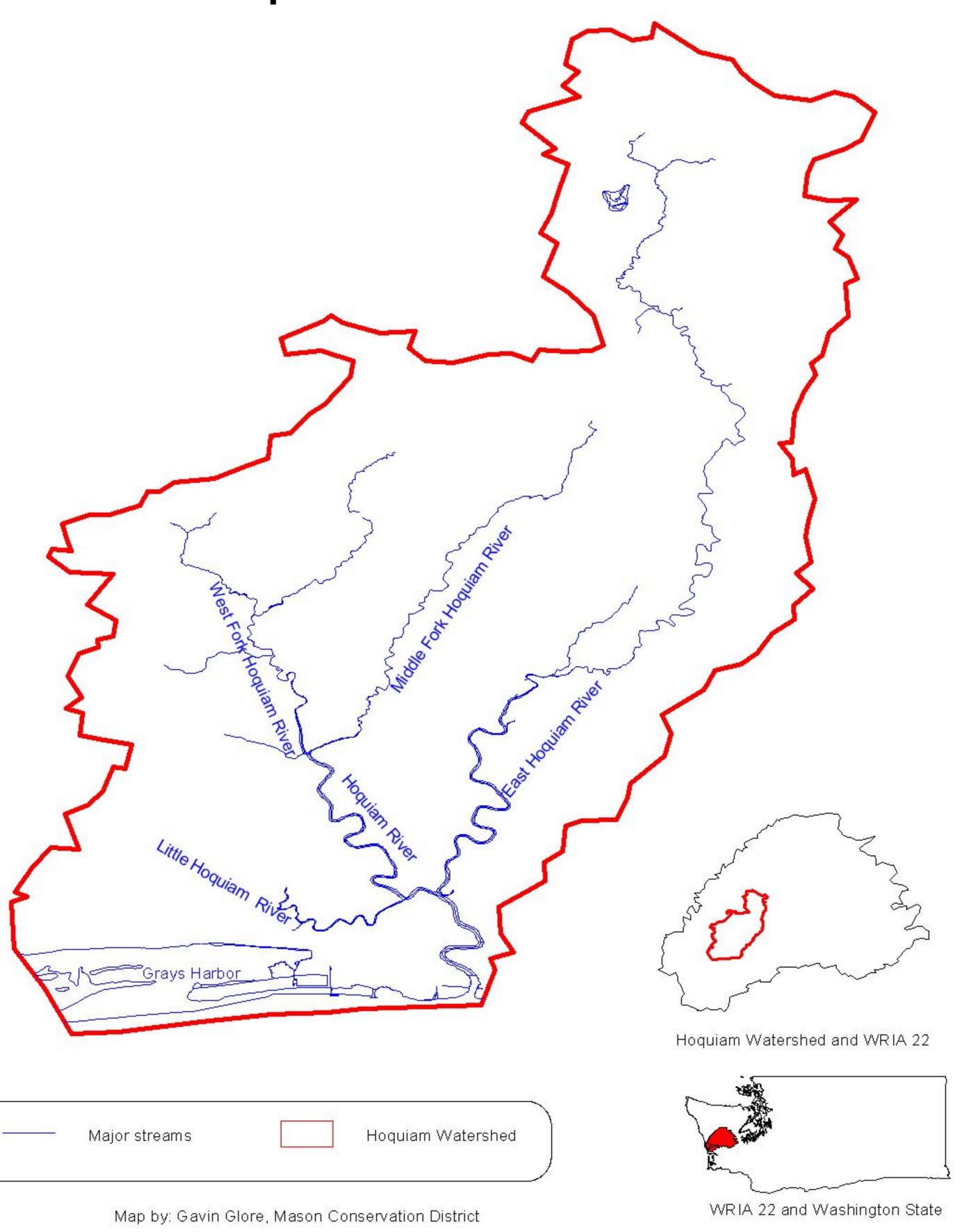
Percent passable of 139 Barrier Sites

0% passable, total barrier = 7 33% passable, severe barrier = 58 67% passable, partial barrier = 74

Ownership of 139 Fish Bearing, Barrier Sites

Private = 13
Municipal = 22
County = 34
State = 0
Federal = 0
Timber Companies = 70

Hoquiam Watershed



Mason Conservation District

Site ID:

PI:

127Q0001

18.83

Fish Use: Barrier:

Yes Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	10W

WATERBODY

Stream:	Polson Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0176
Fish Use:	Yes
FUP Criteria:	Biolgical

OWNER

Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05640	
Longitude:	-123.93079	
WA state plane south (NAD 27, feet)		
East:	1,145,435	
North:	647.002	

Location / Directions:

Water crossing is approximately 250 meters west of the Dekay Rd/US 101 junction.

Site Comments:

Site needs level B analysis from WDFW. Will be evaluated as 67% passable as culvert is undersized (erring on the side of caution).
Record will be updated when WDFW makes barrier determination.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
~	Downstream Check
✓	Physical Survey

PECIE	5 POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBRQ
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	10.20
OHW (m)	8.60
Max Depth (m)	0.61

CHANNEL DESCRIPTION

Toe Width (m)	8.00
Span/Toe Ratio	0.46

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	6233
Spawning (sq m)	3624
Rearing (sq m)	13471

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	BOX
Material	PCC
Span (m)	1.83
Rise (m)	1.61
Length (m)	15.57
Slope (%)	0.83
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Originally thought culvert had tidal influence, but found beaver dam on downstream check. Culvert data will be forwarded to WDFW for evaluation of multiple pipe sites..



Mason Conservation District

Site ID:

PI:

127Q0001 18.83

Fish Use: Barrier:

Yes Unk

CULVERT DESCRIPTION

Sequencer:	2.2
Shape	BOX
Material	PCC
Span (m)	1.83
Rise (m)	1.61
Length (m)	15.38
Slope (%)	0.59
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.10
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Beaver dam downstream impounding wateroriginally thought culvert had tidal influence, but found beaver dam on downstream check. Culvert will need to be analyzed by WDFW crew for Level B - we cannot perform level b analysis on multiple culvert sites.



Mason Conservation District

Site ID:

PI:

127Q0002

Fish Use:

Yes

17.20

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.05649	
Longitude:	-123.94386	
WA state plane south (NAD 27, feet)		
East:	1,142,182	
North:	647,177	

EVALUATION LEVEL COMPLETED

	Report Logged
~	Field Review
	Threshold Determination
	Expanded Threshold Determination
~	Downstream Check
~	Physical Survey

WATERBODY

Stream:	Polson Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0176
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.85 miles west of the Dekay Rd/US 101 junction.

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	13.00	
OHW (m)	3.90	
Max Depth (m)	0.37	
CHANNEL DESCRIPTION		

3.90

0.78

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	4524
Spawning (sq m)	2047
Rearing (sq m)	9518

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	1.51
Rise (m)	1.59
Length (m)	19.54
Slope (%)	1.33
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.24
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Pipe 1.2 was borderline for slope, shot slope 10 times to get a good sample. Pipe 1.2 is located on left bank.



Mason Conservation District

Site ID:

PI:

127Q0002 17.20

Fish Use: Barrier:

Yes Yes

CULVERT DESCRIPTION Culvert Comments:

Pipe 2.2 is located on right bank.



Sequencer: 2.2 RND Shape CST Material 1.52 Span (m) Rise (m) 1.58 17.76 Length (m) 0.82 Slope (%) No Bed Material Outfall Drop (m) 0.00 0.14 WDIC (m) Apron No 1.00 Fill Depth (m) Tidegate No

8

Mason Conservation District

Site ID:

PI:

127Q0003 18.35

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SW

 Township:
 18N

 Range:
 10W

WATERBODY

Section:

 Stream:
 Polson Cr

 Tributary To:
 Hoquiam R 22.0137

 WRIA:
 22.0176

 Fish Use:
 Yes

 FUP Criteria:
 Biolgical

OWNER

Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.05459

 Longitude:
 -123.95600

 WA state plane south (NAD 27, feet)

 East:
 1,139,130

646,615

Location / Directions:

North:

Water crossing is approximately 0.70 miles east of the Ocean Beach Rd/Dekay Rd junction.

Site Comments:

Juvenile coho observed in pool on upstream end of culvert. Right bank has private residence.

EVALUATION LEVEL COMPLETED

	Report	Logged
--	--------	--------

Field Review

Threshold Determination

Expanded Threshold Determination

✓ Downstream Check

Physical Survey

SPECIES POTENTIAL

Sockeye
Dink

Chum

Chinook

✓ Coho

✓ Steelhead

7	Sea	Run	Cutthroat
,	Ou	···	Outtinout

✓ Resident Trout

Dolly/Bull Trout

Brook Trout

Brook Frout

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	9.50
OHW (m)	6.20
Max Depth (m)	0.60

CHANNEL DESCRIPTION

Toe Width (m)	3.70
Span/Toe Ratio	0.50

POTENTIAL HABITAT GAIN

Survey Type: Length (m): Spawning (sq m) Rearing (sq m)

FS	
3149	
295	
6076	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.95
Length (m)	12.71
Slope (%)	0.07
Bed Material	No
Outfall Drop (m)	0.37
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Culvert 1.2 is on right bank.



Mason Conservation District

Site ID: PI:

127Q0003 18.35

Fish Use: Barrier:

Yes Yes

CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	CST
Span (m)	0.94
Rise (m)	0.92
Length (m)	13.30
Slope (%)	0.97
Bed Material	No
Outfall Drop (m)	0.27
WDIC (m)	0.14
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Culvert 2.2 is on left bank.



Mason Conservation District

Site ID:

PI:

127Q0004 11.83

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05092	
Longitude:	-123.96284	
WA state plane south (NAD 27, feet)		
East:	1,137,366	
No wth.	645 353	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
✓	Downstream Check
✓	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

pipe.

Water crossing is approximately 0.25 miles east of the Ocean Beach Rd/Dekay Rd junction.

Wetland habitat dominated by sedges and high

fine % in substrate immediately upstream of

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
✓	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	RR
Problem	depth

PLUNGE POOL DESCRIPTION

Length (m)	10.00	
OHW (m)	4.30	
Max Depth (m)	0.70	
CHANNEL DESCRIPTION		
Toe Width (m)	2.28	

0.40

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	1137
Spawning (sq m)	106
Rearing (sq m)	2015

CULVERT DESCRIPTION

	Г
Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.92
Rise (m)	0.93
Length (m)	10.10
Slope (%)	0.79
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

4 inch x 4 inch rebar gate over upstream end. Level B evaluation indicates that pipe is a depth barrier.



Mason Conservation District

Site ID:

PI:

127Q0005

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.04984	
Longitude:	-123.96397	
WA state plane south (NAD 27, feet)		
East:	1,137,068	
North:	644,971	

EVALUATION LEVEL COMPLETED

✓	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
~	Downstream Check
~	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Biolgical

Location / Directions:

Site Comments:

Water crossing is located 20 meters south of Dekay Rd on Green Crow access road. Access Rd/Dekay Rd junction is approximately 0.2 miles east of the Dekay Rd/Ocean Beach Rd

Wetlands upstream and downstream of culvert.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Green Crow Corporation
Туре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Juvenile coho identified at site.

Length (m)	3.40
OHW (m)	2.30
Critt (iii)	
Max Depth (m)	0.05
CHANNEL DESCRI	PTION
Toe Width (m)	1.60

0.79

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.27
Rise (m)	1.27
Length (m)	12.41
Slope (%)	0.56
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.44
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Overflow hole in top of pipe.



Mason Conservation District

Site ID:

PI:

127Q0006 12.25

Fish Use:

Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Raymond and Betsy Lindholn
Type:	Private

POSITIONAL DATA

WGS 84, dec	imal degrees
-------------	--------------

Latitude:	47.05195	
Longitude:	-123.96093	
WA state plane south (NAD 27, feet)		
East:	1,137,859	
North:	645,706	
1		

Location / Directions:

Water crossing is approximately 0.40 miles east of the Ocean Beach Rd/Dekay Rd junction. Located under driveway for residence @ 274 Dekay Rd.

Site Comments:

Site has four pipes, one of which functions as an overflow.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
V	Downstream Check
V	Physical Survey

SPECIES POTENTIAL

LOIL	3 I OILMIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	1266
O	
Spawning (sq m)	144
Rearing (sq m)	2453

CULVERT DESCRIPTION

	Т
Sequencer:	1.3
Shape	RND
Material	CAL
Span (m)	0.64
Rise (m)	0.61
Length (m)	6.72
Slope (%)	2.40
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.55
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Downstream control and toe not available due to wetland influence directly downstream of pipe. Upstream bank is reinforced with concrete. Pipe 1.3 is located on left bank.



Mason Conservation District

Site ID: PI:

127Q0006 12.25

Fish Use: Barrier:

Yes Yes

CULVERT DESCRIPTION

Sequencer:	2.3
Shape	RND
Material	CAL
Span (m)	0.65
Rise (m)	0.62
Length (m)	6.63
Slope (%)	1.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.56
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Pipe 2.3 is the center pipe.



CULVERT DESCRIPTION

Sequencer:	3.3
Shape	RND
Material	CAL
Span (m)	0.63
Rise (m)	0.63
Length (m)	6.69
Slope (%)	0.75
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.48
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Pipe 3.3 is located on right bank.



Mason Conservation District

Site ID:	127Q0007	Fish Use:	No
PI:		Barrier:	

SITE DESCR	IPTION					
GENERAL LOCATION		POSITIONAL DATA	POSITIONAL DATA		EVALUATION LEVEL COMPLETED	
Road Name:	Ocean Beach Rd	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.04902	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.96914		Threshold Determination	
Section:	18	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination	
Township:	18N	East:	1,135,768		Downstream Check	
Range:	10W	North:	644,728		Physical Survey	
WATERBODY		Location / Direction	s:	SDECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is ap	proximately 0.10 miles	3FEGIL	Sockeye Sea Run Cutthroat	
Tributary To:	unnamed 22.0177	north of the Ocean B			Pink Resident Trout	
WRIA:	22.0000	junction.			Chum Dolly/Bull Trout	
Fish Use:	No]			Chinook Brook Trout	
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout	
OWNER			0 meters downstream, rground through lawn and		Steelhead	
Name:	Grays Harbor	driveway to stream o	n backside of property.			
Type:	County					
LEVEL A AN	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DES	SCRIPTION	POTEN	TIAL HABITAT GAIN	
Review Date:	6/24/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnir	ng (sq m)	
Passability (%)		CHANNEL DESCRI	DTION	Rearing		
Method			TION	rtoaring	(04)	
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				

CULVERT DESCRIPTION

1.1
RND
PCC
0.32
0.32
No
No
1.00
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0008 9.57

Fish Use: Barrier:

Yes Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.04746	
Longitude:	-123.96647	
WA state plane south (NAD 27, feet)		
East:	1,136,407	
North:	644,132	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
~	Downstream Check
~	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0177
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 100 meters south of the Ocean Beach Rd/Dekay Rd junction.

Culvert is scheduled for replacement by Grays

Harbor County when road is realigned.

PECIE	3 FUTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/24/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	11.70		
OHW (m)	4.40		
Max Depth (m)	1.00		

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	830
Spawning (sq m)	81
Rearing (sq m)	1369

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.91
Rise (m)	0.91
Length (m)	18.28
Slope (%)	0.38
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.18
Apron	No
Fill Depth (m)	3.00
Tidegate	No

11.70
4.40
1.00

CHANNEL DESCRIPTION

Toe Width (m)	1.86
Span/Toe Ratio	0.49

Culvert Comments:

Sediments in pipe are fines, last 5 meters angled to left bank. Upstream end of pipe is box (106 span/125 rise) cast in place concrete. Level B not applicable due to grade break with culvert.



Mason Conservation District

Site ID:

127Q0009

Fish Use:

Unk Unk

PI: Barrier:

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged

Field Review

SITE		IDT	-

GENERAL LOCATION Road Name: Ocean Beach Rd County: Grays Harbor 1/4 Section: NE Section: 21 Township: 18N Range: 10W

POSITIONAL DATA

Location / Directions:

Site Comments:

WGS 84, decimal degrees

Latitude: 47.03360

Longitude: -123.92687

WA state plane south (NAD 27, feet)

East: 1,146,050

North: 638,652

Water crossing is approximately 0.25 miles west of the Ocean Beach Rd/US 101 junction.

Outflow of pipe buried, could not locate.

Upstream end of pipe clogged with debris.

SPECIES POTENTIAL	_
Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

WATERBODY

Stream:	unnamed
Γributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/24/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Unable to locate downstream end of culvert, probably buried. Not able to complete level A evaluation.



Mason Conservation District

Site ID:

PI:

127Q0010

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: Ocean Beach Rd

Grays Harbor County: NE 1/4 Section: Section: 21 18N Township:

10W

WATERBODY

Range:

Stream: unnamed Tributary To: Bernard Cr 22.0172 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

OWNER

Grays Harbor Name: County Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.03424 Latitude: -123.92837 Longitude: WA state plane south (NAD 27, feet) 1,145,686

638,899

Location / Directions:

North:

Water crossing is approximately 0.35 miles west of the Ocean Beach Rd/US 101 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
~	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout

Chinook Coho

Steelhead

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

6/25/2003
Glore/Peterson
Yes
33
LA
UD
slope

PLUNGE POOL DESCRIPTION

OHW (m)	
Max Depth (m)	
CHANNEL DECORPTION	

CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	16.04
Slope (%)	6.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Downstream end buried in fill from road grade, but still semi-accessible. No measurable plunge pool or toe.



Mason Conservation District

Site ID:

PI:

127Q0011

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	21
Township:	18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

47.03506 Latitude: -123.93158 Longitude: WA state plane south (NAD 27, feet) 1,144,900 639,235 North:

EVALUATION LEVEL COMPLETED

ninatior

WATERBODY

Range:

Stream:	unnamed
ributary To:	Bernard Cr 22.0172
VRIA:	22.0000
ish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.50 miles west of the Ocean Beach Rd/US 101 junction.

F E CIE	SFUILNIIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.32
Rise (m)	0.32
Length (m)	17.86
Slope (%)	6.30
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Length (m)	
OHW (m)	
Max Depth (m)	

Toe Width (m)	0.80
Span/Toe Ratio	0.40

Culvert Comments:

Downstream end partially buried, less than 10 cm of passable pipe. Plunge pool not accessible because downside end is buried.



Mason Conservation District

Site ID:

PI:

127Q0012

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: Ocean Beach Rd Grays Harbor County: NW 1/4 Section: Section: 21 18N Township: 10W Range: **Location / Directions:**

POSITIONAL DATA

Site Comments:

WGS 84, decimal degrees 47.03651 Latitude: -123.93682 Longitude:

WA state plane south (NAD 27, feet)

1,143,619 639,818 North:

Water crossing is approximately 1.10 miles

west of the Ocean Beach Rd/US 101 junction.

SP

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

WATERBODY

Stream: unnamed Tributary To: Bernard Cr 22.0172 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Mapped

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCR	IPTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.49
Rise (m)	0.46
Length (m)	42.20
Slope (%)	2.04
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.06
Apron	No
Fill Depth (m)	10.00
Tidegate	No

Culvert Comments:

Downstream end is submerged, making plunge pool and toe impossible due to backwater. Upstream end of pipe is CST, Downstream end of pipe is PCC.



Mason Conservation District

Site ID:

PI:

127Q0013

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name: Ocean Beach Rd County: Grays Harbor 1/4 Section: NE Section: 20 Township: 18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.03833

 Longitude:
 -123.94322

 WA state plane south (NAD 27, feet)

 East:
 1,142,052

 North:
 640,550

EVALUATION LEVEL COMPLETED Report Logged

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

OHW = 0.60 meters.

Water crossing is approximately 1.10 miles northwest of the Ocean Beach Rd/US 101 junction.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.45		
OHW (m)	0.90		
Max Depth (m)	0.28		
CHANNEL DESCRIPTION			
Toe Width (m)			

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	19.66
Slope (%)	0.20
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Bedrock cascade 5m DS of pipe (approx. 2 vertical meters) into subterranean flow. Emerges 3-8m DS in 3 separate flows. Pipe seems to be set on LB of natural stream bed. Level B not applicable due to DS subsurface flows.



Mason Conservation District

Site ID:	127Q0014	Fish Use:	No
PI:		Barrier:	

SITE DESCR	IPTION				
GENERAL LOCATION POSITIONAL DATA		EVALUATION LEVEL COMPLETED			
Road Name:	Ocean Beach Rd	WGS 84, decimal degrees			Report Logged
County:	Grays Harbor	Latitude:	47.03856	✓	Field Review
1/4 Section:	SE	Longitude:	-123.94545		Threshold Determination
Section:	17	WA state plane south (NAD	27, feet)		Expanded Threshold Determination
Township:	18N	East:	1,141,501		Downstream Check
Range:	10W	North:	640,660		Physical Survey
WATERBODY		Location / Directions:		SDECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is approxima	tely 1.2 miles west		Sockeye Sea Run Cutthroat
Tributary To:	Bernard Cr 22.0172	of the Ocean Beach Rd/US 1	01 junction.		Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No	Site Comments:			Chinook Brook Trout
FUP Criteria:	Physical				Coho Brown Trout
OWNER		OHW < 0.60 meters.			Steelhead
Name:	Grays Harbor				
Type:	County				
LEVEL A AN	AI VCIC				
		DI LINGE DOOL DECODIDE	ION	DOTEN	TIAL HABITAT GAIN
SUMMARY INFO		PLUNGE POOL DESCRIPT	ION		
Review Date:	6/25/2003	Length (m)		Survey	
Field Crew:	Glore/Peterson	OHW (m)		Length ((m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		CHANNEL DESCRIPTION		Rearing	(sq m)
Method		Toe Width (m)			
Repair Status		` ′			
Problem		Span/Toe Ratio			
CIII VEDT DESC	PIDTION				

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.34
Rise (m)	0.34
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0015

EVALUATION LEVEL COMPLETED Report Logged Field Review

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	Ocean Beach Rd	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	17	
Township:	18N	
Range:	10W	

POSITIONAL DATA

Location / Directions:

Site Comments:

WGS 84, decimal de	egrees
Latitude:	47.04033

-123.94982 Longitude:

WA state plane south (NAD 27, feet) 1,140,440 641,353 North:

Water crossing is approximately 1.4 miles west of the Ocean Beach Rd/US 101 junction.

s

PECIE	S POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	2.25
OHW (m)	1.70
Max Depth (m)	0.70

CHANNEL DESCRIPTION

Toe Width (m)	1.10
Span/Toe Ratio	0.56

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.64
Length (m)	28.80
Slope (%)	0.10
Bed Material	No
Outfall Drop (m)	0.70
WDIC (m)	0.07
Apron	No
Fill Depth (m)	7.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0016

Fish Use: Barrier: Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	17
Township:	18N
Range:	10W

POSITIONAL DATA

W	GS	84,	decimal	degree

Latitude:	47.04219	
Longitude:	-123.95551	
WA state plane south (NAD 27, feet)		
East:	1,139,052	
North:	642,093	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0173
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 1.7 miles west of the Ocean Beach Rd/US 101 junction.

Site	Comments:

SPECIES POTENTIAL

SPECIES POTENT	IAL
Sockeye	Sea Run Cutthroa
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.90
OHW (m)	3.00
Max Depth (m)	0.95
CHANNEL DESCRIPTION	

1.00

1.82

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
1.82
1.82
34.11
1.00
No
0.35
0.16
No
7.00
No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0017

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

Road Name:	Ocean Beach Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	17
Township:	18N
Range:	10W

unnamed

Bernard Cr 22.0172

22.0173

Mapped

Grays Harbor

County

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.04229
Longitude:	-123.95948
WA state plane south (NAD 27, feet)	

1,138,065 642,170 North:

Location / Directions:

Water crossing is approximately 1.75 miles west of the Ocean Beach Rd/US 101 junction.

Site Comments:

Metal beam runs from both ends away from culvert to prevent debris clogging (see picture).

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIES	POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		

Toe Width (m)	1.47
Span/Toe Ratio	0.83

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
1.22
1.22
21.51
1.76
No
0.00
0.04
No
1.00
No

Culvert Comments:

Plunge pool measurements unavailable due to wetland influence downstream of culvert.



Mason Conservation District

Site ID:

PI:

127Q0018

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name: Abandoned Rd County: Grays Harbor 1/4 Section: SW Section: 17

Township: 18N
Range: 10W

WATERBODY

 Stream:
 unnamed

 Tributary To:
 unnamed 22.0173

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

OWNER

Name: Grays Harbor
Type: County

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.04267

 Longitude:
 -123.96012

 WA state plane south (NAD 27, feet)

 East:
 1,137,912

 North:
 642,317

Location / Directions:

Water crossing is approximately 1.95 miles west of the Ocean Beach Rd/US 101 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

Report Logged
Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
\neg	Chinook	Brook Trout

Brown Trout

✓ Coho

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/25/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRIPTION	

 Toe Width (m)
 0.90

 Span/Toe Ratio
 0.60

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.54
Rise (m)	0.54
Length (m)	16.57
Slope (%)	2.77
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.27
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Downstream end of pipe submerged, no measurable plunge pool.



Mason Conservation District

Site ID:

PI:

127Q0019

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION 4013.1 Road Name:

County: Grays Harbor NE 1/4 Section: Section: 20 18N Township: 10W

POSITIONAL DATA

WGS 84, decimal degrees

47.03661 Latitude: -123.95050 Longitude: WA state plane south (NAD 27, feet) 1,140,211 640,004 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Bernard Cr Stream: Tributary To: Hoquiam R 22.0137 WRIA: 22.0172 Fish Use: FUP Criteria: Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 10 meters southwest of the 4013/4013.1 junction.

PECIE	SPOTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	3.50
OHW (m)	2.60
Max Depth (m)	0.90
CHANNEL DESCRIPTION	

1.60

0.70

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.12
1.07
14.82
2.90
No
0.80
0.08
No
2.00
No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0020

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Barrier:

Yes

Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	4013
County:	Grays Harbor
1/4 Section:	NE
Section:	20
Township:	18N

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

OHW = 0.60 meters.

junction.

	•	
Latitude:	47.03647	
Longitude:	-123.95166	
WA state plane south (NAD 27, feet)		
East:	1,139,922	
North:	639,967	

Water crossing is approximately 0.30 miles southwest of the Ocean Beach Rd/4013

S

SPECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Site Comments:

10W

OWNER Name:

ayonier Timberlands Oprtg (Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.20
OHW (m)	0.55
Max Depth (m)	0.40

CHANNEL DESCRIPTION

Toe Width (m)	0.60
Span/Toe Ratio	0.70

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.42
Rise (m)	0.39
Length (m)	7.41
Slope (%)	5.60
Bed Material	No
Outfall Drop (m)	0.35
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Upstream bottom of pipe rusted out.



Mason Conservation District

Site ID: **127**

PI:

127Q0021

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	4013
County:	Grays Harbor
1/4 Section:	NE
Section:	20
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.03515	
Longitude:	-123.95435	
WA state plane south (NAD 27, feet)		
East:	1,139,229	
North:	639,514	

EVALUATION LEVEL COMPLETED

ninatior

WATERBODY

Stream:	unnamed
Tributary To:	Bernard Cr 22.0172
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.50 miles southwest of the Ocean Beach Rd/4013 junction.

Pipe has failed, flow is subterranean through

road grade 5 meters upstream from pipe.

SPECIES POTENTIAL

I LOILO I C	/ I LIVIIAL	
Soc	keye	Sea Run Cutthroa
Pinl	k	✓ Resident Trout
Chu	ım	Dolly/Bull Trout
Chi	nook	Brook Trout
✓ Coh	10	Brown Trout
Ste	elhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	0
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)	1.05		

0.61

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.61
Length (m)	9.49
Slope (%)	4.60
Bed Material	No
Outfall Drop (m)	0.55
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Plunge pool measurements unavailable because pipe has failed and is no longer passing water.



WRIA 22 Fish Passage Inventory Site ID: 127Q0022 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4013 WGS 84, decimal degrees Road Name: Grays Harbor 47.02298 **V** Field Review Latitude: County: Threshold Determination -123.96533 NE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 30 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,136,299 10W Physical Survey Range: 635,199 North: WATERBODY Location / Directions: **SPECIES POTENTIAL** Stream: unnamed Water crossing is immediately north of the ✓ Sea Run Cutthroat Sockeye Tributary To: unnamed 22.0161 4013/4013.06 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Water flowing through road grade. **OWNER** Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%) **Bed Material** Outfall Drop (m)

WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0023

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION 4013 Road Name: Grays Harbor County: ΝE 1/4 Section: 30 Section: 18N Township: 10W Range:

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.02231		
Longitude:	-123.96516		
WA state plane south (NAD 27, feet)			
East: 1,136,330			
North:	634,955		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0161
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is immediately south of the 4013/4013.06 junction.

	۱ ۵

SPECIES POTENTIAL			
	Sockeye	✓ Sea Run Cutthroat	
	Pink	✓ Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
✓	Coho	Brown Trout	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.20	
OHW (m)	1.60	
Max Depth (m)	0.70	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.51
Rise (m)	0.47
Length (m)	8.04
Slope (%)	-3.48
Bed Material	No
Outfall Drop (m)	0.65
WDIC (m)	0.07
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Upstream end of culvert crushed. Wetland downstream prevents toe measurements. Culvert is sloped inversely.



Mason Conservation District

Site ID:

PI:

634,793

127Q0024

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION 4013 Road Name: County: Grays Harbor ΝE 1/4 Section: 30 Section: 18N Township: 10W Range:

unnamed

unnamed 22.0161

22.0000

Yes

Mapped

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.02185
Longitude:	-123.96578
WA state plane south (NAD 27, feet)	
East: 1,136,170	

Location / Directions:

North:

Water crossing is approximately 100 meters west of the 4013/4013.06 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

Name:	ayonier Timberlands Oprtg C
Туре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/26/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.80	
OHW (m)	2.00	
Max Depth (m)	0.50	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.77
Rise (m)	0.78
Length (m)	9.14
Slope (%)	2.29
Bed Material	No
Outfall Drop (m)	0.32
WDIC (m)	0.08
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Toe Width (m) Span/Toe Ratio

Wetland immediately downstream of plunge



WRIA 22 Fish Passage Inventory Site ID: 127Q0025 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4013 WGS 84, decimal degrees Road Name: Grays Harbor 47.02104 **✓** Field Review Latitude: County: Threshold Determination -123.96664 NE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 30 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,135,941 10W Physical Survey 634,506 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.10 miles Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0161 west of the 4013/4013.6 junction Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho No pipe. Stream flows subsurface under the **OWNER** road. OHW = 90 meters. Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0026

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name: Valley Rd County: Grays Harbor 1/4 Section: NE Section: 6 Township: 18N

10W

Grays Harbor

County

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 46.99084

Longitude: -123.97029

WA state plane south (NAD 27, feet)

East: 1,134,549

North: 623,545

Water crossing is approximately 0.50 miles

northeast of the Valley Rd/SR 109 junction.

SPECIES POTENTIAL			
Sockeye	Sea Run Cutthroat		
Pink	✓ Resident Trout		
Chum	Dolly/Bull Trout		
Chinook	Brook Trout		
Coho	Brown Trout		
✓ Steelhead			

WATERBODY

Range:

OWNER

Name:

Type:

Stream:	Little Hoquiam River
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0155
Fish Use:	Yes
FUP Criteria:	Mapped

Site Comments:

Location / Directions:

Wetland immediately downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
SQSH
CST
1.88
1.09
13.16
0.22
Unk
0.00
0.45
No
1.00
No

Culvert Comments:

Span/Toe Ratio

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0027

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	Valley Rd	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	5	
Township:	17N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.99259	
Longitude:	-123.96237	
WA state plane south (NAD 27, feet)		
East: 1,136,552		
North: 624 096		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	Blazer Cr
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0162
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 1.0 mile northwest of the Valley Rd/SR 109 junction.

SPECIES POTENTIAL

		-
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	5.80
OHW (m)	4.10
Max Depth (m)	0.70
1 (/	
CHANNEL DESCRIPTION	
Toe Width (m)	1.80

0.51

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.91
0.94
12.03
1.75
No
0.00
0.15
No
1.00
No

Span/Toe Ratio

Culvert Comments:

2 inch PVC pipe running through culvert.



Mason Conservation District

Site ID:

127Q0028

Fish Use:

Yes

PI: Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION Road Name: Bay Ridge Estates County: Grays Harbor 1/4 Section: SW Section: 6 Township: 17N Range: 10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.98476	
Longitude:	-123.98136	
WA state plane south (NAD 27, feet)		
East:	1,131,691	
North:	621,451	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is located in Bay Ridge Estates residential development.

SPECIES POTENTIAL

Sea Run Cutthroa
✓ Resident Trout
Dolly/Bull Trout
Brook Trout
Brown Trout

OWNER

Name:	John Karnas
Гуре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Wetland immediately downstream.

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.22
Rise (m)	1.20
Length (m)	31.42
Slope (%)	0.50
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.55
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0029

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Bay Ridge Estates Road Name: Grays Harbor County: SW 1/4 Section: Section: 6 17N Township:

10W

POSITIONAL DATA

WGS 84, decimal degrees 46.98481 Latitude: -123.98229 Longitude: WA state plane south (NAD 27, feet) 1,131,460 621,479

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

North:

Water crossing is located in Bay Ridge Estates residential development.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	John Karnas
Tyne:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	6/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Wetland immediately downstream.

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PVC
0.77
0.77
23.59
0.11
Yes
0.00
0.11
No
2.00
No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0030

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Grays Harbor Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	46.98468
Longitude:	-123.95112
WA state plane south (NAD 27, feet)	
East:	1,139,228

621,088

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Grays Harbor
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments: OHW = 0.60 meters.

North:

Water crossing is approximately 0.10 miles north of the Grays Harbor Rd/SR 109 junction.

PECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.30	
OHW (m)	1.40	
Max Depth (m)	0.50	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.48
Rise (m)	0.47
Length (m)	9.65
Slope (%)	3.20
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Toe Width (m)	
Span/Toe Ratio	

Culvert Comments:

Toe measurement unattainable due to confluence immediately downstream of plunge pool, toe is near 0.60 meters.



Mason Conservation District

Site ID:

PI:

127Q0031

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Road Name:	Private Dr
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.98475	
Longitude:	-123.95097	
WA state plane south (NAD 27, feet)		
East:	1,139,268	

621,114

EVALUATION LEVEL COMPLETED

L		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Grays Harbor
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

North:

Water crossing is approximately 0.10 miles north of the Grays Harbor Rd/SR 109 junction, beneath private drive for residence @ 14 Grays Harbor Rd.

Site Comments:

SPECIES POTENTIAL

	-	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	
		Pink Chum Chinook Coho

OWNER

Name:	Vendell and Patrick Sagerse
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.10	
OHW (m)	1.60	
Max Depth (m)	0.40	
CHANNEL DESCRIPTION		

0.80

0.58

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PVC
0.46
0.47
11.94
6.20
No
0.40
0.02
No
1.00
No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio



Mason Conservation District

Site ID:

127Q0032

Fish Use:

Yes

PI: Barrier: Unk

SITE	DESCRIPTION
91 I L	DEGCINII IION

GENERAL LOCATION 4017.3 Road Name: Grays Harbor County: SE 1/4 Section: Section: 1 17N Township: 11W Range:

POSITIONAL DATA

	-	
Latitude:	46.98435	
Longitude:	-123.98843	
WA state plane south (NAD 27, feet)		
East:	1,129,920	
North:	621,380	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Grays Harbor
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 0.50 miles south of the 4017.3/SR 109 junction.

Site	Comments:

SPECIES POTENTIAL

☐ Sockeye ✓	Sea Run Cutthroat
☐ Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Туре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.22
Rise (m)	1.24
Length (m)	18.08
Slope (%)	0.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.27
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0033

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION 4017.3 Road Name: Grays Harbor County: SE 1/4 Section: Section: 1 17N Township: 11W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	46.98347	
Longitude:	-123.98912	
WA state plane south (NAD 27, feet)		
East:	1,129,736	
North:	621,067	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

downstream of site.

Water crossing is approximately 0.60 miles south of the 4017.3/SR 109 junction.

OHW > 0.60 meters. Wetland immediately

PECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.18
Rise (m)	1.24
Length (m)	15.40
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.18
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0034

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION 4012.001 Road Name: Grays Harbor County: SW 1/4 Section: Section: 18 18N Township: 10W

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

Site Comments:

47.04569 Latitude: -123.97660 Longitude: WA state plane south (NAD 27, feet) 1,133,856 643,600 North:

Water crossing is approximately 0.15 miles southeast of the 4012/4012.001 junction.

Wetland immediately downstream of site.

Physical Survey

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Expanded Threshold Determination

Report Logged

Field Review

SPECIES POTE	NTIAL
Sockey	e Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinoo	k Brook Trout
✓ Coho	Brown Trout
Steelhe	ead

WATERBODY

Range:

Stream: unnamed Tributary To: unnamed 22.0177 WRIA: 22.0000 Fish Use: Unk FUP Criteria: Physical

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/1/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	12.62
Slope (%)	2.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences.



Mason Conservation District

Site ID:	127Q0035	Fish Use:	No
PI:		Barrier:	

SITE DESCR	RIPTION					
GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL	. COMPLETED
Road Name:	East Hoquiam Rd	WGS 84, decimal degre	ees		Report Logged	
County:	Grays Harbor	Latitude:	46.98186	✓	Field Review	
1/4 Section:	SW	Longitude:	-123.87510		Threshold De	etermination
Section:	1	WA state plane south (N	NAD 27, feet)		Expanded Th	reshold Determination
Township:	17N	East:	1,158,141		Downstream	Check
Range:	10N	North:	619,241		Physical Surv	vey
WATERBODY		Location / Directions:		SDECIE	ES POTENTIAI	•
Stream:	unnamed	Water crossing is appro	ximately 0.40 miles	3FEGIL	Sockeye	Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	north of the E Hoquiam			Pink	Resident Trout
WRIA:	22.0000	junction.			Chum	Dolly/Bull Trout
Fish Use:	No				Chinook	Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho	Brown Trout
OWNER		Upstream is a gradient to end is buried under fill w			Steelhead	Blown Hout
Name:	Hoquiam	OHW < 0.60 meters.				
Гуре:	City					
LEVEL A AN	IAI VCIC					
SUMMARY INFO		PLUNGE POOL DESC	RIPTION	POTEN	ITIAL HABITAT	T GAIN
Review Date:	7/7/2003	Length (m)		Survey	Type:	
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnii	ng (sq m)	
Passability (%)		CHANNEL DESCRIPTI	ON	Rearing	· /	
Method				. touring	, (=4)	
		Toe Width (m)				
Repair Status		roe widir (iii)				

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.46
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.02
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0036

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Range:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

WATERBODY

Tributary To:

FUP Criteria:

GENERAL LOCATION		
Road Name:	Panhandle Rd	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	35	
Township:	18N	

10W

unnamed

EF Hoquiam R 22.0138

22.0000

Mapped

Grays Harbor

County

POSITIONAL DATA

WGS 84, decimal degrees

47.00553 Latitude: -123.88617 Longitude: WA state plane south (NAD 27, feet)

1,155,750 627,985 North:

Location / Directions:

Water crossing is approximately 0.40 miles northwest of the E Hoquiam Rd/Panhandle Rd junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIES P	OTENTIAL	
Sc	ockeye	✓ Sea Run Cutthroa
Pi	nk	✓ Resident Trout
Ch	num	Dolly/Bull Trout
Cł	ninook	Brook Trout
✓ Co	oho	Brown Trout
St	eelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	0
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)			
Span/Toe Ratio			

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.63
0.64
12.75
1.33
Unk
0.00
0.41
No
1.00
No

Culvert Comments:

Culvert is impounding water with a vertical overflow intake upstream. Steel grate have been fastened to both ends. Large wetlands upstream and downstream.



Mason Conservation District

Site ID:

PI:

127Q0037

Fish Use:

Yes

Barrier: Unk

		CR		

GENERAL LOCATION

Road Name:	Panhandle Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	35
Township:	18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.00541

 Longitude:
 -123.88626

 WA state plane south (NAD 27, feet)

 East:
 1,155,727

 North:
 627,943

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.45 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

Wetland habitat upstream and downstream of

SPECIES POTENTIAL

I LOILO I C	/ I LIVIIAL	
Soc	keye	Sea Run Cutthroa
Pinl	k	✓ Resident Trout
Chu	ım	Dolly/Bull Trout
Chi	nook	Brook Trout
✓ Coh	10	Brown Trout
Ste	elhead	

OWNER

Name:	en Diamond Resource Com
Tvpe:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.72
0.68
12.87
0.00
Unk
0.00
0.68
No
1.00
No

Culvert Comments:

Level B not applicable due to lack of downstream control. Both ends of pipe are completely submerged with brackish water.



Mason Conservation District

Site ID:

PI:

127Q0038

Fish Use:

No

Barrier:

		CR		

GENERAL LOCATION			
Road Name:	Panhandle Rd		
County:	Grays Harbor		
1/4 Section:	SE		
Section:	35		
Township:	18N		
Range:	10W		

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.00362		
Longitude:	-123.88630		
WA state plane south (NAD 27, feet)			
East:	1,155,689		
North:	627,289		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.60 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

Downstream end of culvert is diverted into

private pond. Confluence with the E Hoquiam 80 meters downstream.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION			

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.25
Tidegate	No

Culvert Comments:

Water flows directly into private pond downstream, upstream has ditch delivery obscuring stream width measurements.



Mason Conservation District

Site ID:

127Q0039

Fish Use: Barrier:

Yes Yes

PI:

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	Panhandle Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	35
Township:	18N

10W

WATERBODY

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

OWNER

Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.00033		
Longitude:	-123.88619		
WA state plane south (NAD 27, feet)			
East:	1,155,665		
North:	626,091		

Location / Directions:

Water crossing is approximately 0.80 miles southeast of the Panhandle Rd/E Hoquiam Rd junction.

Site Comments:

Langth (m)

Wetland habitat upstream and downstream of site. OHW > 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIES FOTENTIAL			
	Sockeye	Sea Run Cutthroa	
	Pink	✓ Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
~	Coho	Brown Trout	
	Steelhead		

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Toe Width (m) Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.29
Rise (m)	0.29
Length (m)	9.65
Slope (%)	2.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

No plunge pool or stream width measurements due to wetland influences.



Mason Conservation District

Site ID:

PI:

127Q0040

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION HQ-1000 Road Name:

Grays Harbor County: 1/4 Section: NE Section: 35 18N Township:

10W

POSITIONAL DATA

WGS 84, decimal degrees

47.00619 Latitude: -123.88710 Longitude: WA state plane south (NAD 27, feet) 1,155,530 628,236 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

Location / Directions:

Site Comments:

OHW > 0.60 meters.

Water crossing is approximately 100 meters northeast of the HQ-1000/Panhandle Rd junction.

PECIE	SPOTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

en Diamond Resource Comp Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.40	
OHW (m)	1.60	
Max Depth (m)	0.50	
CHANNEL DESCRIPTION		

1.00

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.15
WDIC (m)	
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

US end buried by massive beaver dam, DS end of culvert is deformed and chocked with beaver debris. Unable to obtain level A measurements.



HQ-1000

Grays Harbor

26

18N

10W

Mason Conservation District

Site ID:

127Q0041

Fish Use: Barrier:

Yes Unk

PI:

628,754

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:

1/4 Section:

County:

Section:

Range:

Township:

POSITIO	DNAL	DATA

North:

WGS 84, decimal degrees

47.00762 Latitude: -123.88681 Longitude:

WA state plane south (NAD 27, feet) 1,155,624

WATERBODY **Location / Directions:**

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000

Fish Use: FUP Criteria: Mapped

OWNER

en Diamond Resource Comp Name: Private Type:

Water crossing is approximately 0.15 miles northeast of the HQ-1000/Panhandle Rd junction.

Site Comments:

EVALUATION LEVEL COMPLETED

Report Logge	d
--------------	---

Field Review Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye
_	

Pink

Chum

Chinook Coho

Steelhead

Dolly/Bull Trout **Brook Trout** Brown Trout

Resident Trout

✓ Sea Run Cutthroat

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	0.90
OHW (m)	1.30
Max Depth (m)	0.25

CHANNEL DESCRIPTION

Toe Width (m)	1.30
Span/Toe Ratio	0.57

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.74
Rise (m)	0.60
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

Could not locate upstream end of culvert due to wetland. Pipe is either buried by fill or submerged.



Mason Conservation District

Site ID:

PI:

127Q0042

EVALUATION LEVEL COMPLETED Report Logged Field Review

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	A-820	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	22	
Township:	18N	

10N

POSITIONAL DATA

Latitude:	47.03173
Longitude:	-123.90688
WA state plane south (NAD 27, feet)	
East:	1,151,000
North:	637,752
Location / Directions:	

Water crossing is approximately 0.30 miles

north of the 4014.8/A-820 junction.

Site Comments:

SPECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam R 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.90
OHW (m)	0.50
Max Depth (m)	1.30
CHANNEL DESCRI	PTION

Toe Width (m)	1.00
Span/Toe Ratio	0.79

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.79
Rise (m)	0.75
Length (m)	22.55
Slope (%)	4.80
Bed Material	No
Outfall Drop (m)	0.80
WDIC (m)	0.03
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

Debris pile downstream of pipe.



Mason Conservation District

Site ID: 127Q0043 Fish Use: PI:

SITE DESCRIPTION

GENERAL LOCATION

HQ-1200 Road Name: Grays Harbor County:

1/4 Section: Section: 26 18N Township: 10W

WATERBODY

Range:

Stream: unnamed Tributary To: Hoquiam R 22.0137 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

OWNER

en Diamond Resource Comp Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.01412 Latitude: -123.88497 Longitude: WA state plane south (NAD 27, feet) 1,156,185 631,102 North:

Location / Directions:

Water crossing is approximately 0.15 miles north of the HQ-1000/HQ-1200 junction.

Site Comments:

OHW < 0.60 meters. Gradient barrier upstream and downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

Barrier:

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCR	EIPTION
CHANNEL DESCR Toe Width (m)	EIPTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.40
Rise (m)	0.42
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.70
WDIC (m)	0.00
Apron	No
Fill Depth (m)	
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

47.01503

-123.88358

127Q0044

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL	LOCATION

Road Name:	HQ-1200
County:	Grays Harbor
1/4 Section:	SE
Section:	26
Township:	18N
Range:	10W

POSITIONAL DATA

Location / Directions:

Site Comments:

Longitude:

WGS 84, decimal degrees
Latitude:

WA state plane south (NAD 27, feet)

East: 1,156,544

North: 631,417

Water crossing is approximately 0.35 miles

north of the HQ-1200/HQ-1000 junction.

SPECIES POTENTIAL

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout

WATERBODY

 Stream:
 unnamed

 Tributary To:
 EF Hoquiam R 22.0138

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

OWNER

Name: en Diamond Resource Comp Type: Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
Toe Width (m)	0.80

0.60

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.48
0.48
11.48
8.20
No
0.70
0.02
No
1.00
No

Culvert Comments:

Span/Toe Ratio

No plunge pool due to high gradient on downstream end of culvert.



Mason Conservation District

Site ID: 127Q0045

PI:

Fish Use:

No

Barrier:

SITE	DES	CRI	PTI	

GENERAL LOCATION

HQ-1200 Road Name: Grays Harbor County: SE 1/4 Section: Section: 26 18N Township: 10W Range:

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.01595	
Longitude:	-123.88123	
WA state plane south (NAD 27, feet)		
East:	1,157,146	
North:	631,728	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments: OHW < 0.60 meters.

Water crossing is approximately 0.55 miles north of the HQ-1200/HQ-1000 junction.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	en Diamond Resource Com
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

7/7/2003
Glore/Peterson

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.38
0.40
No
0.70
0.02
No
No

Culvert Comments:

Debris pile downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0046

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: HQ-1200 County: Grays Harbor 1/4 Section: NE Section: 26 Township: 18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

	-	
Latitude:	47.01736	
Longitude:	-123.88092	
WA state plane south (NAD 27, feet)		
East:	1,157,243	
North:	632,237	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.65 miles north of the HQ-1200/HQ-1000 junction.

Site	Comments:

SPECIES POTENTIAL

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name:	en Diamond Resource Comp
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.90	
Span/Toe Ratio	0.70	

POTENTIAL HABITAT GAIN

CULVERT DESCRIPTION

1.1
RND
CST
0.63
0.63
25.47
7.30
No
0.30
0.02
No
6.00
No

Culvert Comments:

Debris pile downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0047

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: HQ-1200

 County:
 Grays Harbor

 1/4 Section:
 NE

 Section:
 25

 Township:
 18N

 Range:
 10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.01998

 Longitude:
 -123.87954

 WA state plane south (NAD 27, feet)

 East:
 1,157,628

633,178

Field Review Threshold Determination

Report Logged

EVALUATION LEVEL COMPLETED

Threshold DeterminationExpanded Threshold Determination

Downstream CheckPhysical Survey

WATERBODY

 Stream:
 unnamed

 Tributary To:
 EF Hoquiam R 22.0138

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

en Diamond Resource Comp

Private

Location / Directions:

North:

Water crossing is approximately 0.85 miles northeast of the HQ-1200/HQ-1000 junction.

Site Comments:

SPECIES POTENTIAL

Sockeye	✓ Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout

☐ Chinook ☐ Coho

•		
\neg	Stor	Jhood

Brown Trout

Type:

OWNER

Name:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.60
OHW (m)	1.30
Max Depth (m)	0.35

CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	0.80

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sg m)	

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	0.64	
Rise (m)	0.64	
Length (m)	27.88	
Slope (%)	11.20	
Bed Material	No	
Outfall Drop (m)	0.95	
WDIC (m)	0.02	
Apron	No	
Fill Depth (m)	8.00	
Tidegate	No	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

47.13361

-123.80557

127Q0048

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Greenwood Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	16
Township:	19N
Range:	09W

POSITIONAL DATA

Longitude:

WGS 84, decimal	degrees
Latitude:	

Location / Directions:

WA state plane south (NAD 27, feet)

	,,
East:	1,177,798
North:	673,805

Water crossing is approximately 0.95 miles

northeast of the Greenwood Rd/E Hoquiam Rd

S

PECIES PO	TENTIAL	
Sock	eye 🔻	Sea Run Cutthroat
Pink	V	✓ Resident Trout
Chun	n [Dolly/Bull Trout
Chine	ook	Brook Trout
Coho		Brown Trout
✓ Steel	lhead	

WATERBODY

OWNER

Name:

Type:

Stream:	unnamed
Tributary To:	unnamed 22.0146
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Grays Harbor

County

Site Comments:

junction.

Stream flow parallel to road.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	UD
Problem	velocity

PLUNGE POOL DESCRIPTION

Length (m)	6.30
OHW (m)	3.30
Max Depth (m)	0.75

CHANNEL DESCRIPTION

Toe Width (m)	1.20
Span/Toe Ratio	0.53

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.63
Rise (m)	0.64
Length (m)	12.53
Slope (%)	0.80
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Water exits plunge pool on left bank and continues to run parallel with road. Substrate is hard pan aggregate, made up of gravel and



Mason Conservation District

Site ID: 127Q0049

PI:

Fish Use:

Barrier:

No

SITE DESCRIPTION

GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED			
Road Name:	4220.5	WGS 84, decimal degrees			Report Logged		
County:	Grays Harbor	Latitude:	47.15717	✓	Field Review	N	
1/4 Section:	SE	Longitude:	-123.78582		Threshold D	etermination	
Section:	3	WA state plane south (NAD 27, feet)			Expanded T	hreshold Determination	
Township:	19N	East:	1,183,067		Downstrean	n Check	
Range:	09N	North:	682,185		Physical Su	rvey	
WATERBODY		Location / Direc	tions:	SDECIE	S POTENTIA	A.I	
Stream:	unnamed	Water crossing is approximately 1.15 miles west of the 4220.5/Greenwood Rd junction.		3FEGIL	Sockeye	Sea Run Cutth	
Tributary To:	unnamed 22.0146				•		
WRIA:	22.0000				Pink	Resident Trout	

Site Comments:

OHW = 0.45 meters.

FUP Criteria:
OWNER

Fish Use:

WRIA:

Name:	ayonier Timberlands Oprtg (
Type:	Private

Physical

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	0.45
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.63
0.65
No
0.03
No
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0050

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION 4220.5 Road Name:

Grays Harbor County: SE 1/4 Section: Section: 3 19N Township: 09W

POSITIONAL DATA

WGS 84, decimal degrees

47.15724 Latitude: -123.78731 Longitude: WA state plane south (NAD 27, feet) 1,182,698 682,226 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

Location / Directions:

Site Comments:

Water crossing is approximately 1.25 miles west of the 4220.5/Greenwood Rd junction.

ECIE	5 POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Stoolhood	

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	0.20	
OHW (m)	0.85	
Max Depth (m)	0.20	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.64
Rise (m)	0.65
Length (m)	7.60
Slope (%)	-1.97
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.30
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Length (m)	0.20
OHW (m)	0.85
Max Depth (m)	0.20
CHANNEL DECCRI	DTION

Toe Width (m)	0.70
Span/Toe Ratio	91.40

Culvert Comments:

Downstream end of pipe smashed. Culvert is sloped inversely.



Mason Conservation District

Site ID:

PI:

127Q0051

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4220.53
County:	Grays Harbor
1/4 Section:	SW
Section:	3
Township:	19N
Range:	09W

POSITIONAL DATA

 WGS 84, decimal degrees

 Latitude:
 47.15688

 Longitude:
 -123.79080

 WA state plane south (NAD 27, feet)

East: 1,181,824

North: 682,131

Downstream Check

Physical Survey

Field Review

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Expanded Threshold Determination

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0146
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 100 meters north of the 4220.5/4220.53 junction.

Site Comments:

OHW = 0.60 meters.

SPECIES POTENTIAL

_0		
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Туре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.70
OHW (m)	1.10
Max Depth (m)	0.40
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

	Т
Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.33
Rise (m)	0.33
Length (m)	7.39
Slope (%)	2.98
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.35
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m) Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0052

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: 4220.53

 County:
 Grays Harbor

 1/4 Section:
 SE

 Section:
 34

 Township:
 20N

 Range:
 09W

unnamed

EF Hoquiam R 22.0138

22.0146

Physical

POSITIONAL DATA

North:

Site Comments:

WGS 84, decimal degrees

 Latitude:
 47.15881

 Longitude:
 -123.79236

 WA state plane south (NAD 27, feet)

 East:
 1,181,468

682,849

Physical Survey

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Downstream Check

Expanded Threshold Determination

Field Review

Location / Directions:	SPECIES POTENTIAL	
Water crossing is approximately 0.20 miles	Sockeye	

Pink
Chum

✓ Sea Run Cutthroat
✓ Resident Trout

Dolly/Bull Trout

Brook Trout

Brown Trout

Chinook Coho

Steelhead

OWNER

Fish Use:

FUP Criteria:

WATERBODY

Tributary To:

Stream:

WRIA:

Name: ayonier Timberlands Oprtg C
Type: Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

north of the 4220.5/4220.53 junction.

Length (m)	0.90
OHW (m)	1.00
Max Depth (m)	0.20

CHANNEL DESCRIPTION

Toe Width (m)	1.10
Span/Toe Ratio	0.59

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.65
Length (m)	10.91
Slope (%)	2.66
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0053

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4220
County:	Grays Harbor
1/4 Section:	SE
Section:	34

20N 09W

WATERBODY

Township:

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS	84.	decimal	degree
** 00	υ¬,	accimia	ucgi cc.

Latitude:	47.17082	
Longitude:	-123.78364	
WA state plane south (NAD 27, feet)		
East:	1,183,816	
North:	687,136	

Location / Directions:

Water crossing is approximately 0.20 miles southeast of the 4220/4220.06 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

" LCILO	OTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
F	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
✓ 5	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.30
OHW (m)	1.10
Max Depth (m)	0.40
CHANNEL DESCRI	PTION

Toe Width (m)	0.70
Span/Toe Ratio	0.47

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.33
Rise (m)	0.33
Length (m)	16.53
Slope (%)	5.50
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.02
Apron	No
Fill Depth (m)	12.00
Tidegate	No

Culvert Comments:

Car parts scattered in plunge pool.



Mason Conservation District

Site ID:	127Q0054	Fish Use:
PI:		Barrier:

Spawning (sq m)

Rearing (sq m)

No

SITE DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA	<u> </u>	EVALU	ATION LEVEL COMPLETED
Road Name:	4220	WGS 84, decimal degrees			Report Logged
County:	Grays Harbor	Latitude:	47.17224	✓	Field Review
1/4 Section:	SE	Longitude:	-123.78695		Threshold Determination
Section:	34	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	20N	East:	1,183,015		Downstream Check
Range:	09W	North:	687,688		Physical Survey
WATERBODY		Location / Direction	ns:	SDECIE	S POTENTIAL
Stream:	unnamed	Water crossing is im	mediately north of the	JFECIE	Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	4220/W170 junction.			Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No				Chinook Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout
OWNER		Gradient barrier downstream.			Steelhead
Name:	Grays Harbor				
Type:	County				
LEVEL A ANA	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	7/8/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)

CULVERT DESCRIPTION

Passability (%)

Repair Status

Method

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.33
Rise (m)	0.33
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.00
Apron	No
Fill Depth (m)	
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

CHANNEL DESCRIPTION



Mason Conservation District

Site ID:

127Q0055

Fish Use:

Yes

PI: Barrier: Unk

> **EVALUATION LEVEL COMPLETED** Report Logged

> > Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	W 700
County:	Grays Harbor
1/4 Section:	NW
Section:	10
Township:	19N

09W

POSITIONAL DATA

North:

WGS 84, decimal degrees

Location / Directions:

Site Comments:

47.14981 Latitude: -123.79508 Longitude: WA state plane south (NAD 27, feet) 1,180,654

Water crossing is approximately 0.85 miles

west of the W700/Greenwood Rd junction.

679,597

S

SPECIES POTENTIA	AL
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
✓ Steelhead	

WATERBODY

Range:

unnamed Stream: Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0146 Fish Use: FUP Criteria: Mapped

OWNER

en Diamond Resource Comp Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	12.45
OHW (m)	3.40
Max Depth (m)	0.55

CHANNEL DESCRIPTION

Toe Width (m)	1.95
Span/Toe Ratio	0.48

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

	Г
Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.94
Rise (m)	0.96
Length (m)	12.18
Slope (%)	0.50
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Overflow pipe above main culvert. Beaver dam 15 meters downstream. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0056

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL	LOCATION

Road Name:	Greenwood Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	16
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.12747	
Longitude:	-123.80675	
WA state plane south (NAD 27, feet)		
East:	1,177,410	
North:	671,577	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

unnamed
EF Hoquiam R 22.0138
22.0000
Yes
Mapped

Location / Directions:

Site Comments: OHW > 0.6 meters.

Water crossing is approximately 0.50 miles north of the Greenwood Rd/E Hoquiam Rd junction.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/8/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.50
OHW (m)	0.80
Max Depth (m)	0.50
CHANNEL DESCRI	PTION
Toe Width (m)	1.40

0.56

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.78
Rise (m)	0.79
Length (m)	12.48
Slope (%)	1.60
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.18
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Span/Toe Ratio

Culvert Comments:

Stream flow is subterranean upstream, 1.2 vertical meter partial barrier encountered 20 meters downstream of culvert.



Mason Conservation District

Site ID:

PI:

127Q0057

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Report Logged Field Review Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	19N
Range:	09W

POSITIONAL DATA WGS 84 decimal degrees

Location / Directions:

vvGS 84, decimal degrees		
Latitude:	47.14614	
Longitude:	-123.82529	
WA state plane south (NAD 27, feet)		
East:	1,173,086	

Water crossing is approximately 75 meters northeast of private road/E Hoquiam Rd

Newly placed pipe. 50 meters up the road

678,576

enecies s	OTENTIAL	
SPECIES F	OTENTIAL	
Sc	ockeye	✓ Sea Run Cutthroa
Pi	nk	✓ Resident Trout
C	num	Dolly/Bull Trout
C	ninook	Brook Trout
✓ Co	oho	Brown Trout
✓ St	eelhead	

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0148
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biolgical

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

another pipe has been removed and road abandoned.

Site Comments:

North:

junction.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/9/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRIPTION	

Toe Width (m)	0.65
Span/Toe Ratio	2.62

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sg m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.70
Rise (m)	1.35
Length (m)	12.32
Slope (%)	0.24
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

New culvert with no plunge pool. Juvenile coho caught in pools above and below culvert due to low flow conditions.



Mason Conservation District

Site ID: 127Q0058 Fish Use: No PI: Barrier:

Length (m):

Spawning (sq m)

Rearing (sq m)

SITE DESCRIPTION

GENERAL LOC	ATION	POSITIONAL DATA		EVALU	ATION LEVEL	L COMPLETED
Road Name:	Private Rd	WGS 84, decimal de	grees		Report Logg	ed
County:	Grays Harbor	Latitude:	47.14802	✓	Field Review	ı
1/4 Section:	NE	Longitude:	-123.82619		Threshold D	etermination
Section:	8	WA state plane south	n (NAD 27, feet)		Expanded TI	hreshold Determination
Township:	19N	East:	1,172,893		Downstream	Check
Range:	09W	North:	679,269		Physical Sur	vey
WATERBODY		Location / Direction	s:	SPECIE	S POTENTIA	ı
Stream:	unnamed	Available maps inade	equate to describe location.		Sockeye	Sea Run Cutthroat
Tributary To:	unnamed 22.0148		,		Pink	Resident Trout
WRIA:	22.0000				Chum	
Fish Use:	No					Dolly/Bull Trout
FUP Criteria:	Physical	Site Comments:			Chinook	Brook Trout
OWNER		OHW < 0.60 meters.			Coho Steelhead	Brown Trout
Name:	Fruit Growers Supply Co					
Type:	Private					
LEVEL A AN	NALYSIS					
SUMMARY INFORMATION		PLUNGE POOL DESCRIPTION		POTENTIAL HABITAT GAIN		
Review Date:	7/9/2003	Length (m)		Survey	Type:	

CULVERT DESCRIPTION

Field Crew:

Passability (%)

Repair Status

Barrier

Method

Problem

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	0.48	
Rise (m)	0.45	
Length (m)		
Slope (%)		
Bed Material	No	
Outfall Drop (m)		
WDIC (m)	0.00	
Apron	No	
Fill Depth (m)		
Tidegate	No	

Glore/Peterson

Culvert Comments:

OHW (m)

Max Depth (m)

Toe Width (m)

Span/Toe Ratio

CHANNEL DESCRIPTION



Mason Conservation District

Site ID:

PI:

127Q0059

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4222
County:	Grays Harbor
1/4 Section:	NE
Section:	10
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.14516	
Longitude:	-123.79260	
WA state plane south (NAD 27, feet)		
East: 1,181,200		
North: 677,877		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.35 miles northwest of the 4222/Greenwood Rd junction.

Beaver dam plugging upstream end of pipe.

SPECIES POTENTIAL

	OI OILIVIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/9/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.10	
OHW (m)	2.40	
	2.45	
Max Depth (m)	0.15	
CHANNEL DESCRIPTION		

1.10

0.85

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.94
0.94
12.06
5.20
No
0.03
0.02
No
2.00
No

Span/Toe Ratio

Culvert Comments:

Toe Width (m)

Wetlands upstream and downstream of site. Overflow pipe located above main culvert.



Mason Conservation District

Site ID: 12

PI:

127Q0060

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4222	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	10	
Township:	19N	

09W

POSITIONAL DATA

WGS 84,	decimal	degree

Latitude:	47.14622	
Longitude:	-123.79544	
WA state plane south (NAD 27, feet)		
East:	1,180,510	
North:	678,295	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

OHW > 0.60 meters.

Water crossing is approximately 0.50 miles northwest of the 4222/Greenwood Rd junction.

Beaver dam covering upstream end of culvert.

SPECIES POTENTIAL

	OI OILIVIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/9/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.79
Rise (m)	0.76
Length (m)	11.49
Slope (%)	2.40
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Overflow pipe adjacent to main pipe. Wetland habitat upstream and downstream of site, no plunge pool or stream width measurements available.



Mason Conservation District

Site ID:

PI:

127Q0061

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION Dekay Rd Road Name: Grays Harbor County: $\mathsf{N}\mathsf{W}$ 1/4 Section: 17 Section: 18N Township:

10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05181	
Longitude:	-123.96107	
WA state plane south (NAD 27, feet)		
East:	1,137,822	
North:	645,658	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

with debris.

Water crossing is approximately 0.35 miles northeast of the Dekay Rd/ Ocean Beach Rd junction.

OHW = 0.6 meters. Upstream channel filled

S

PECIE	S POTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

Name:	Grays Harbor
Гуре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/10/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.60	
Span/Toe Ratio	0.40	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.24
0.24
7.87
3.40
No
0.07
0.03
No
1.00
No

Culvert Comments:

Plunge pool measurements unavailable due to confluence immediately downstream of pipe.



Mason Conservation District

Site ID:	127Q0062	Fish Use:	No
PI:		Barrier:	

wason conservation district

SITE DESCRIPTION GENERAL LOCATION POSITIONAL

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	17
Township:	18N
Range:	10W

POSITIONAL DATA WGS 84, decimal degrees Latitude: 47.05152

Longitude: -123.96165

WA state plane south (NAD 27, feet)

East: 1,137,674

North: 645,557

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

OWNER

Name:

Type:

Stream:	unnamed
Tributary To:	unnamed 22.0177
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Grays Harbor

County

Location / Directions:

Water crossing is approximately 0.30 miles northeast of the Dekay Rd/ Ocean Beach Rd junction.

Ci+A	Com	mon	+0.

OHW < 0.50 meters.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/10/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
,	
CHANNEL DESCRI	PTION
CHANNEL DESCRI Toe Width (m)	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.26
Rise (m)	0.26
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Downstream end of pipe is crushed.



Mason Conservation District

Site ID:

PI:

47.03972

127Q0063

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	Private Dr	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	17	
Township:	18N	

10W

Robert Inglin

Private

POSITIONAL DATA

WGS 84, decimal de	grees
Latitude:	

Longitude:	-123.95027
WA state plane sout	h (NAD 27, feet)

East:

1,140,318 641,135 North:

SP

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

OWNER

Name:

Type:

Stream: unnamed Tributary To: Bernard Cr 22.0172 WRIA: 22.0173 Fish Use: FUP Criteria: Mapped

Location / Directions:

Water crossing is located beneath private drive at 112 Ocean Beach Rd, approximately 1.4 miles northwest of the Ocean Beach Rd/US 101 junction.

Site Comments:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/10/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	9.40
OHW (m)	4.20
Max Depth (m)	1.40
CHANNEL DESCRIPTION	

Toe Width (m)	2.40
Span/Toe Ratio	0.40

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.96
Rise (m)	0.96
Length (m)	7.46
Slope (%)	-1.60
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.08
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Old pipe is buried beneath functional culvert, visible on downstream end in plunge pool. Culvert is sloped inversely.



WRIA 22 Fish Passage Inventory Site ID: 127Q0064 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4222 WGS 84, decimal degrees Road Name: Grays Harbor 47.14491 **~** Field Review Latitude: County: -123.80346 Threshold Determination Longitude: 1/4 Section: NE **Expanded Threshold Determination** Section: 9 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,178,496 09W Physical Survey 677,900 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.95 miles Sockeye ✓ Sea Run Cutthroat Tributary To: EF Hoquiam R 22.0138 northwest of the 4222/Greenwood Rd junction. Pink Resident Trout WRIA: 22.0146 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Mapped Brown Trout Coho Wet crossing on decommissioned road. **OWNER** Steelhead **V** ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0065

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	9
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05678	
Longitude:	-123.94020	
WA state plane south (NAD 27, feet)		
East:	1,143,099	
North:	647,243	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.60 miles west of the Dekay Rd/US 101 junction.

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Grays Harbor
Гуре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.62
Rise (m)	0.62
Length (m)	10.45
Slope (%)	2.60
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Plunge pool and stream width measurements not available due to wetland habitat downstream of site.

	A CONTRACTOR
	And An Option of the Control of the
V Ze	

Mason Conservation District

Site ID:

PI:

127Q0066

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged Field Review

Fish Use:

Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Dekay Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	9
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05730	
Longitude:	-123.93626	

WA state plane south (NAD 27, feet) 1,144,089 647,388 North:

s

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

OWNER

Name:

Type:

unnamed Stream: Tributary To: Polson Cr 22.0176 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

Grays Harbor

County

Location / Directions:

Water crossing is approximately 0.50 miles west of the Dekay Rd/US 101 junction. Near private driveway for 73 Dekay Rd.

Site Comments:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/23/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.70
OHW (m)	1.60
Max Depth (m)	0.27
CHANNEL DESCRIPTION	

Toe Width (m)	1.00
Span/Toe Ratio	0.46

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.46
0.45
11.87
4.20
No
0.00
0.04
No
1.00
No

Culvert Comments:

Last segment of pipe is separated and failing.



Mason Conservation District

Site ID:

PI:

127Q0067

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Youmans Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.15075 -123.83466 Longitude: WA state plane south (NAD 27, feet) 1,170,828 680,355 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.35 miles southeast of the EF Hoquiam bridge on Youmans Rd.

Site Comments:

SPECIES POTENTIAL	_
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	1.70
Max Depth (m)	0.60
CHANNEL DESCRIPTION	

0.70

0.90

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.63
0.62
18.51
2.40
No
0.25
0.00
No
1.00
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0068

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Youmans Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal de	egrees	
Latitude:	47.14561	
Longitude:	-123.82596	
WA state plane south (NAD 27, feet)		
East:	1,172,912	
North:	678.389	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

unnamed
EF Hoquiam R 22.0138
22.0148
Yes
Biolgical

Location / Directions:

Water crossing is approximately 0.90 miles southeast of the EF Hoquiam bridge on Youmans Rd.

Abundant juvenile coho upstream and

SPECIES POTENTIAL

LCIL	.51 OILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

downstream of site.

Site Comments:

LEVEL A ANALYSIS

SUMMARY INFORMATION

7/30/2003
Glore/Peterson
Yes
67
LA
UD
slope

PLUNGE POOL DESCRIPTION

Length (m)	9.00	
OHW (m)	0.60	
Max Depth (m)	7.50	
CHANNEL DESCRIPTION		

6.90

0.42

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
2.91
2.06
18.41
1.40
No
0.00
0.17
No
1.00
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:	127Q0069	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	East Hoquiam Rd	WGS 84, decimal degrees			Report Logged
County:	Grays Harbor	Latitude:	47.14161	✓	Field Review
1/4 Section:	SE	Longitude:	-123.82170		Threshold Determination
Section:	8	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,173,909		Downstream Check
Range:	09W	North:	676,888		Physical Survey
WATERBODY		Location / Direction	ıs:	e DE CIE	ES POTENTIAL
Stream:	unnamed	Water crossing is lo	cated at the E Hoquiam	3FECIE	Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	Rd/Youmans Rd jun	ction, approximately 0.25		, <u></u>
WRIA:	22.0000	miles north of the E Rd junction.	Hoquiam Rd/Greenwood		
Fish Use:	No	,			
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout
OWNER		Natural point barrier culvert, approximate	50 meters downstream of ly 4 vertical meters.		Coho Brown Trout Steelhead
Name:	Grays Harbor				
Туре:	County				
LEVEL A AN	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	7/30/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnii	ng (sq m)
Passability (%)		CHANNEL DESCRI	PTION	Rearing	(sa m)
Method					
Repair Status		Toe Width (m)			
Problem		Span/Toe Ratio			

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	1.07
Rise (m)	1.07
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Hornet nest in log directly downstream of pipe.



Mason Conservation District

Site ID:	127Q0070	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

05NED 41 1 004	TION	DOCITIONAL DATA		- >/4111	ATION LEVEL COMPLETED	
GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED		
Road Name:	East Hoquiam Rd	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.13874	✓	Field Review	
1/4 Section:	SE	Longitude:	-123.81939		Threshold Determination	
Section:	8	WA state plane south	n (NAD 27, feet)	Expanded Threshold Determination		
Township:	19N	East:	1,174,441		Downstream Check	
Range:	09W	North:	675,818		Physical Survey	
WATERBODY		Location / Direction	s:	SDECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is apr	proximately 100 meters		Sockeye Sea Run Cutthroat	
Tributary To:	EF Hoquiam R 22.0138	north of the E Hoquia				
WRIA:	22.0000	junction.				
Fish Use:	No					
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout	
OWNER			Landowner reported that t barrier downstream.		Coho Brown Trout Steelhead	
Name:	Grays Harbor					
Type:	County					
LEVEL A ANA	AI VSIS					
SUMMARY INFO		PLUNGE POOL DES	SCRIPTION	POTEN	ITIAL HABITAT GAIN	
Review Date:	7/30/2003	Length (m)		Survey		
Field Crew:	Glore/Peterson	OHW (m)		Length	· · · · · · · · · · · · · · · · · · ·	
Barrier		Max Depth (m)		Ū	ng (sq m)	
Passability (%)		, .		·		
Method		CHANNEL DESCRIF	PTION	Rearing	g (sq m)	
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.29
Rise (m)	0.29
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	



Mason Conservation District

Site ID:	127Q0071	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA **EVALUATION LEVEL COMPLETED GENERAL LOCATION** Report Logged East Hoquiam Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.13880 Field Review Latitude: County: Threshold Determination -123.81938 1/4 Section: SE Longitude: **Expanded Threshold Determination** Section: 8 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,174,444 09W Physical Survey 675,840 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 100 meters Sockeye Sea Run Cutthroat Tributary To: EF Hoquiam R 22.0138 north of the E Hoquiam Rd/Greenwood Rd Pink Resident Trout junction, culvert is 3 meters downstream. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Landowner reports 5 meter natural point barrier **OWNER** downstream. OHW < 0.50 meters. Steelhead Grays Harbor Name: County Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 7/30/2003 Length (m) Survey Type: Glore/Peterson Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status

CULVERT DESCRIPTION

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.48
Rise (m)	0.48
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:	127Q0072	Fish Use:	No
PI:		Barrier:	

SITE DESCR	IPTION					
GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL	COMPLETED
Road Name:	East Hoquiam Rd	WGS 84, decimal deg	rees		Report Logge	d
County:	Grays Harbor	Latitude:	47.13280	✓	Field Review	
1/4 Section:	NW	Longitude:	-123.81775		Threshold De	termination
Section:	16	WA state plane south	(NAD 27, feet)		Expanded Th	reshold Determination
Township:	19N	East:	1,174,756		Downstream (Check
Range:	09W	North:	673,635		Physical Surv	еу
WATERBODY		Location / Directions	:	SDECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is loca	ted near private drive @	3FECIE	Sockeye	Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	3050 East Hoquiam R	d, approximately 1.9		Pink	Resident Trout
WRIA:	22.0000	miles southeast of EF	Hoquiam bridge.		Chum	Dolly/Bull Trout
Fish Use:	No				Chinook	Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho	Brown Trout
OWNER		OHW < 0.60 meters.			Steelhead	Blowii Ilout
Name:	Grays Harbor					
Type:	County					
LEVEL A AN	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DES	CRIPTION	POTEN	TIAL HABITAT	GAIN
Review Date:	7/30/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnii	ng (sq m)	
Passability (%)		CHANNEL DESCRIP	TION	Rearing		
Method					, , , ,	
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				
CULVERT DESC	RIPTION					

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Downstream end is crushed and broken. Potential natural point barrier downstream.



Site ID:	127Q0073	Fish Use:	No
ъ.		.	

_	=			
Mason Conservation District		PI:	Barrier:	

SITE DESCRIPTION

GENERAL LOCATION East Hoquiam Rd. Road Name: Grays Harbor County: SW 1/4 Section: 16 Section: 19N Township: 09W Range:

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.12865	
Longitude:	-123.81314	
WA state plane south (NAD 27, feet)		
East:	1,175,841	
North:	672,074	

Location / Directions:

Water crossing is located near private driveway @ 2976 East Hoquiam Rd, approximately 0.65 miles northwest of the Greenwood Rd/E Hoquiam Rd junction.

Site Comments:

OHW < 0.60 meters. Potential natural point barrier downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION		
PTION		
PTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.45
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Pipe 1.2 is on left bank. Potential natural point barrier downstream.



Site ID:

PI:

127Q0073

Fish Use:

Barrier:

No

Mason Conservation District

CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PCC
Span (m)	0.37
Rise (m)	0.37
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Pipe 2.2 is on right bank. Potential natural point barrier downstream.



Mason Conservation District

Site ID:	127Q0074	Fish Use:	No
PI:		Barrier:	

SITE DESCR	RIPTION						
GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED			
Road Name:	East Hoquiam Rd	WGS 84, decimal degrees			Report Logged		
County:	Grays Harbor	Latitude:	47.12095	✓	Field Review		
1/4 Section:	NE	Longitude:	-123.80783		Threshold Determination		
Section:	21	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination		
Township:	19N	East:	1,177,042		Downstream Check		
Range:	09W	North:	669,213		Physical Survey		
WATERBODY		Location / Direction	s:	SPECIE	ES POTENTIAL		
Stream:	unnamed	Water crossing is ap	proximately 100 meters		Sockeye Sea Run Cutthroat		
Tributary To:	EF Hoquiam R 22.0138	northwest of the Gree	enwood Rd/East Hoquiam		Pink Resident Trout		
WRIA:	22.0000	Rd junction.			Chum Dolly/Bull Trout		
Fish Use:	No						
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout Coho Brown Trout		
OWNER		Natural point barrier	downstream.		Steelhead		
Name:	Grays Harbor						
Type:	County						
LEVEL A AN	IALYSIS						
SUMMARY INFO	ORMATION	PLUNGE POOL DES	SCRIPTION	POTEN	TIAL HABITAT GAIN		
Review Date:	7/30/2003	Length (m)		Survey	Туре:		
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawnii	ng (sq m)		
Passability (%)		CHANNEL DESCRI	PTION	Rearing	ı (sa m)		
Method		ſ					
Repair Status		Toe Width (m)					
Problem		Span/Toe Ratio					

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.41
Rise (m)	0.41
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	1.00
Tidegate	



Mason Conservation District

Site ID:	127Q0075	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCATION		POSITIONAL DATA		EVALU	EVALUATION LEVEL COMPLETED	
Road Name:	East Hoquiam Rd	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.11943	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.80721		Threshold Determination	
Section:	21	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination	
Township:	19N	East:	1,177,174		Downstream Check	
Range:	09W	North:	668,655		Physical Survey	
WATERBODY		Location / Direction	is:	SPECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is ap	proximately 0.10 miles		Sockeye Sea Run Cutthroat	
Tributary To:	EF Hoquiam R 22.0138	south of the Greenwe	ood Rd/East Hoquiam Rd		Pink Resident Trout	
WRIA:	22.0000	junction.			Chum Dolly/Bull Trout	
Fish Use:	No	0.4			Chinook Brook Trout	
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout	
OWNER		Natural point barrier road.	downstream, visible from		Steelhead Steelhead	
Name:	Grays Harbor					
Type:	County					
LEVEL A ANA	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN	
Review Date:	7/30/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnir	ng (sq m)	
Passability (%)		CHANNEL DESCRI	PTION	Rearing	(sa m)	
Method						
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.49
Rise (m)	0.49
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Bottom of pipe rusted out on downstream end.



Mason Conservation District

Site ID:	127Q0076	Fish Use:	No
PI:		Barrier:	

SITE DESCR	IPTION				
GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	East Hoquiam Rd	WGS 84, decimal de	egrees		Report Logged
County:	Grays Harbor	Latitude:	47.11843	✓	Field Review
1/4 Section:	NE	Longitude:	-123.80727		Threshold Determination
Section:	21	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,177,144		Downstream Check
Range:	09W	North:	668,289		Physical Survey
WATERBODY		Location / Direction	ns:	SDECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 0.15 miles		Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	south of the Greenw	ood Rd/East Hoquiam Rd		Pink Resident Trout
WRIA:	22.0000	junction.			Chum Dolly/Bull Trout
Fish Use:	No	04.0			Chinook Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout
OWNER		Natural point barrier downstream.			Steelhead
Name:	Grays Harbor				
Type:	County				
LEVEL A AN	ALYSIS				
SUMMARY INFO		PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	7/30/2003	Length (m)		Survey	Type:
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		CHANNEL DESCRI	PTION	Rearing	
Method			1 11011	rtoaring	7 (24)
Repair Status		Toe Width (m)			
Problem		Span/Toe Ratio			

CULVERT DESCRIPTION

COLVERT BECORN TION		
Sequencer:	1.1	
Shape	RND	
Material	PCC	
Span (m)	0.61	
Rise (m)	0.61	
Length (m)		
Slope (%)		
Bed Material		
Outfall Drop (m)		
WDIC (m)		
Apron		
Fill Depth (m)	1.00	
Tidegate		



Mason Conservation District

Site ID:

PI:

127Q0077

Fish Use:

No

Barrier:

SIT			

GE	NERA	L LO	CATIO	N	
				_	

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	21
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.11487	
Longitude:	-123.80803	
WA state plane south (NAD 27, feet)		
East:	1,176,901	
North:	667,000	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.10 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

Stream meets minimum requirements for fish bearing status, but natural point barrier downstream.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.30	
OHW (m)	1.10	
Max Depth (m)	0.40	
CHANNEL DESCRIPTION		
Toe Width (m)	1.20	

0.50

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.31
Slope (%)	0.32
Bed Material	No
Outfall Drop (m)	0.12
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Natural point barrier 25 meters downstream of pipe.



Mason Conservation District

Site ID:	127Q0078	Fish Use:	No
PI:		Barrier:	

CITE DECEDIBLION

SITE DESCRI	PTION				
GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVE	L COMPLETED
Road Name:	East Hoquiam Rd	WGS 84, decimal deg	grees	Report Logg	jed
County:	Grays Harbor	Latitude:	47.11165	✓ Field Review	V
1/4 Section:	SW	Longitude:	-123.80782	Threshold D	etermination
Section:	21	WA state plane south	(NAD 27, feet)	Expanded T	hreshold Determination
Township:	19N	East:	1,176,904	Downstream	n Check
Range:	09W	North:	665,825	Physical Sur	rvey
WATERBODY		Location / Directions	s:	SPECIES POTENTIA	.1
Stream:	unnamed	Water crossing is app	proximately 0.35 miles	Sockeye	Sea Run Cutthroat
Γributary To:	EF Hoquiam R 22.0138	south of the Hoquiam	-Wishkah Rd/East	Pink	Resident Trout
WRIA:	22.0000	Hoquiam Rd junction.		Chum	Dolly/Bull Trout
Fish Use:	No				Brook Trout
FUP Criteria:	Physical	Site Comments:		Chinook	Brown Trout
OWNER		Natural point barrier of meters.	lownstream. OHW = 0.50	Coho Steelhead	Blowii Hout
Name:	Grays Harbor				
Гуре:	County				
LEVEL A ANA	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DES	CRIPTION	POTENTIAL HABITA	AT GAIN
Review Date:	7/30/2003	Length (m)		Survey Type:	
Field Crew:	Glore/Peterson	OHW (m)		Length (m):	
Barrier		Max Depth (m)		Spawning (sq m)	
Passability (%)		CHANNEL DESCRIP	PTION	Rearing (sq m)	
Method		-	11011		
Repair Status		Toe Width (m)			
Problem		Span/Toe Ratio			

CULVERT DESCRIPTION

1.1
RND
CST
0.30
0.30



Mason Conservation District

Site ID: 127Q0079 Fish Use: No Ы Barrier:

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged East Hoquiam Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.10212 **~** Field Review Latitude: County: Threshold Determination -123.81319 NW 1/4 Section: Longitude: **Expanded Threshold Determination** Section: 28 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,175,420 09W Physical Survey 662,410 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.15 miles Sockeye Sea Run Cutthroat south of the Hoquiam-Wishkah Rd/East Tributary To: EF Hoquiam R 22.0138 Pink Resident Trout Hoquiam Rd junction. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Natural point barrier downstream. **OWNER** Steelhead Grays Harbor Name: County Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 7/30/2003 Length (m) Survey Type: Glore/Peterson Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m)

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.46
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Span/Toe Ratio

Landowner who lives near culvert reports that there is a natural point barrier downstream.



Mason Conservation District

Site ID:

PI:

127Q0080

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

		NOITA

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	33
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09403	
Longitude:	-123.81351	
WA state plane south (NAD 27, feet)		
East:	1,175,217	
North:	659.463	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 1.7 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

Potential natural point barrier downstream.

PECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	8.20	
OHW (m)	3.60	
Max Depth (m)	1.70	
CHANNEL DESCRIPTION		

2.20

0.57

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	1.26	
Rise (m)	1.22	
Length (m)	13.60	
Slope (%)	1.60	
Bed Material	No	
Outfall Drop (m)	0.82	
WDIC (m)	0.04	
Apron	No	
Fill Depth (m)	1.00	
Tidegate	No	

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0081

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	33
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.08832	
Longitude:	-123.81329	
WA state plane south (NAD 27, feet)		
East:	1,175,184	
North:	657,381	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biolgical

Location / Directions:

Site Comments:

Water crossing is approximately 2.1 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

Natural point barrier (approximately 10 meters

high) 400 meters upstream according to multiple landowners.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
✓	Steelhead	

OWNER

Name:	Grays Harbor	
Type:	County	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	6.30	
OHW (m)	4.30	
Max Depth (m)	1.10	
CHANNEL DESCRIPTION		

2.50

0.31

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.79
0.79
25.44
0.58
No
0.35
0.08
No
3.00
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:	127Q0082	Fish Use:	No
PI:		Barrier:	

SITE DESCR	IPTION						
GENERAL LOCATION POS		POSITIONAL DATA	POSITIONAL DATA		EVALUATION LEVEL COMPLETED		
Road Name:	East Hoquiam Rd	WGS 84, decimal degre	es		Report Logged		
County:	Grays Harbor	Latitude:	47.08434	✓	Field Review		
1/4 Section:	SW	Longitude:	-123.81354	Threshold Determination			
Section:	33	WA state plane south (N	AD 27, feet)		Expanded Threshold Determination		
Township:	19N	East:	1,175,063		Downstream Check		
Range:	09W	North:	655,933		Physical Survey		
WATERBODY		Location / Directions:		SDECIE	ES POTENTIAL		
Stream:	unnamed	Water crossing is approx	ximately 2.4 miles south	JF E CIL	Sockeye Sea Run Cutthroat		
Tributary To:	EF Hoquiam R 22.0138	of the Hoquiam-Wishkah			Pink Resident Trout		
WRIA:	22.0000	junction.			Chum Dolly/Bull Trout		
Fish Use:	No	0.4.			Chinook Brook Trout		
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout		
OWNER		Ordinary high water width is less that 0.6 meters. Possible natural point barrier			Steelhead Steelhead		
Name:	Grays Harbor	downstream.					
Туре:	County						
LEVEL A AN	ALYSIS						
SUMMARY INFO	RMATION	PLUNGE POOL DESCR	RIPTION	POTEN	ITIAL HABITAT GAIN		
Review Date:	7/30/2003	Length (m)		Survey	Type:		
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawnii	ng (sq m)		
Passability (%)		CHANNEL DESCRIPTION	ON .	Rearing			
Method			JN	rtcamig) (54 III)		
Repair Status		Toe Width (m)					
Problem		Span/Toe Ratio					
CULVERT DESC	RIPTION						

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.30
Rise (m)	0.42
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Pipe smashed on upstream end.



Mason Conservation District

Site ID:	127Q0083	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

SHE DESCR	IPTION						
GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED			
Road Name:	East Hoquiam Rd	WGS 84, decimal deg	rees		Report Logg	ed	
County:	Grays Harbor	Latitude:	47.08147	✓	Field Review	1	
1/4 Section:	SW	Longitude:	-123.81469		Threshold D	etermination	
Section:	33	WA state plane south	(NAD 27, feet)		Expanded Threshold Determination		
Township:	19N	East:	1,174,732		Downstream	Check	
Range:	09W	North:	654,898		Physical Sur	vey	
WATERBODY		Location / Directions	:	SPECIE	S POTENTIA	L	
Stream:	unnamed	Water crossing is appr	oximately 2.6 miles south		Sockeye	Sea Run Cutthroat	
Tributary To:	EF Hoquiam R 22.0138	of the Hoquiam-Wishk junction.		Pink	Resident Trout		
WRIA:	22.0000	junction.			Chum	Dolly/Bull Trout	
Fish Use:	No	Site Comments:			Chinook	Brook Trout	
FUP Criteria:	Physical				Coho	Brown Trout	
OWNER		OHW < 0.6 meters.			Steelhead	Brown Front	
Name:	Grays Harbor						
Type:	County						
LEVEL A AN	ALYSIS						
SUMMARY INFORMATION		PLUNGE POOL DESCRIPTION		POTEN	TIAL HABITA	T GAIN	
Review Date:	7/30/2003	Length (m)		Survey	Type:		
Field Crew:	Glore/Peterson	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawnii	ng (sq m)		
Passability (%)		CHANNEL DESCRIP	TION	Rearing			
Method			IION	rtearing	(04 111)		
Repair Status		Toe Width (m)					

CULVERT DESCRIPTION

Problem

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.48
Rise (m)	0.48
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0084

Fish Use:

Yes

Barrier: Unk

> **EVALUATION LEVEL COMPLETED** Report Logged Field Review

> > Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal de	egrees
Latitude:	47.0734
Longitude:	-123 818

WA state plane south (NAD 27, feet)

1,173,650 652,002 North:

Water crossing is approximately 3.3 miles south

of the Hoquiam-Wishkah Rd/East Hoquiam Rd

SI

PECIES POTENTIAL			
	Sockeye	Sea Run Cutthroat	
	Pink	✓ Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
~	Coho	Brown Trout	
	Steelhead		

WATERBODY

OWNER

Name:

Type:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biolgical

Grays Harbor

County

Site Comments:

junction.

Location / Directions:

Juvenile coho identified downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/30/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.80
OHW (m)	1.30
Max Depth (m)	0.30
CHANNEL DESCRIPTION	

Toe Width (m)	1.90
Span/Toe Ratio	0.47

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.90
Rise (m)	0.90
Length (m)	15.17
Slope (%)	0.92
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.30
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0085

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.07303	
Longitude:	-123.81844	
WA state plane south (NAD 27, feet)		
East: 1,173,669		
North:	651,862	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 3.4 miles south of the Hoquiam-Wishkah Rd/East Hoquiam Rd junction.

SPECIES POTENTIAL

I LOILO I OTLIVITAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

Site Comments: Downstream sect

Downstream section of pipe beginning to separate and fail. Pipe empties into another stream immediately downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	5.30	
OHW (m)	5.10	
Max Depth (m)	0.70	
CHANNEL DESCRIPTION		

1.30

0.95

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	1.23
Rise (m)	1.23
Length (m)	18.58
Slope (%)	5.00
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0086

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GEN	IEDAI	LOCA	TION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06710	
Longitude:	-123.82082	
WA state plane south (NAD 27, feet)		
East:	1,172,985	
North:	649,725	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 6.25 miles north of the E Hoquiam Rd/Broadway Ave junction.

2.5 meter partial barrier 8 meters downstream

PECIES POTENTIA	AL
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	0
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	5.50	
OHW (m)	3.30	
Max Depth (m)	1.00	
CHANNEL DESCRIPTION		
Too \A/idth (m)	2.20	

Survey Type:	
Length (m):	
Spawning (sq m)	

POTENTIAL HABITAT GAIN

Rearing (sq m)

Toe Width (m)	2.20
Span/Toe Ratio	0.35

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.76
Rise (m)	0.76
Length (m)	57.76
Slope (%)	5.80
Bed Material	No
Outfall Drop (m)	2.10
WDIC (m)	0.03
Apron	No
Fill Depth (m)	13.00
Tidegate	No



Mason Conservation District

Site ID:

PI:

127Q0087

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06458	
Longitude:	-123.82249	
WA state plane south (NAD 27, feet)		
East:	1,172,530	
North:	648,826	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

unnamed
EF Hoquiam R 22.0138
22.0000
Yes
Physical

Location / Directions:

Site Comments:

landowners.

Water crossing is approximately 6.05 miles north of the E Hoquiam Rd/Broadway Ave intersection. Just North of site 127Q0088(dual culverts).

Stream has been modified upstream by private

SPECIES POTENTIAL

DI LOILO I OTLIVITAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.50	
OLIM/ (m)	1.10	
OHW (m)	1.10	
Max Depth (m)	0.45	
CHANNEL DESCRIPTION		
Toe Width (m)	0.50	

1.50

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.75
0.75
18.87
4.00
No
0.30
0.02
No
2.00
No

Culvert Comments:

Span/Toe Ratio

Channel is ditched on downstream end.



Mason Conservation District

Site ID:

PI:

127Q0088

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06413	
Longitude:	-123.82187	
WA state plane south (NAD 27, feet)		
East:	1,172,679	
North:	648.655	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

unnamed
EF Hoquiam R 22.0138
22.0000
Yes
Physical

Location / Directions:

Site Comments:

Water crossing is approximately 6.05 miles north of the E Hoquiam Rd/Broadway Ave intersection, on private residence at 2210 E Hoquiam Rd.

Site is highly modified by landscaping/artificial

SPECIES POTENTIAL

		-
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

Name:	oseph and Diedre Williams
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	0
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.50	
OHW (m)	1.60	
Max Depth (m) 0.30		
CHANNEL DESCRIPTION		

0.80

1.16

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	PVC
Span (m)	0.15
Rise (m)	0.15
Length (m)	9.70
Slope (%)	6.20
Bed Material	No
Outfall Drop (m)	1.20
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Artificial waterfall on downstream end. Vertical intake on upstream end is 0.5 meters tall.



Mason Conservation District

Site ID: PI:

127Q0088

Fish Use:

Yes Yes

F

Barrier:

CULVERT DESCRIPTION

2.2
RND
CST
0.78
0.75
11.95
3.70
No
0.00
0.03
No
2.00
No

Culvert Comments:

Vertical intake on upstream end of pipe is 2.0 meters tall.



Mason Conservation District

Site ID:	127Q0089	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION GENERAL LOCATION POSITIONAL DATA EVALUATION LEVEL COMPLETED

Road Name:	East Hoquiam Rd	WGS 84, decimal de	egrees
County:	Grays Harbor	Latitude:	47.062
1/4 Section:	NE	Longitude:	-123.82
Section:	8	WA state plane sout	h (NAD 27, feet)
Township:	18N	East:	1,171,6
Range:	09W	North:	648,00

ATERBODY	Location / Direction

 Stream:
 unnamed

 Tributary To:
 EF Hoquiam R 22.0138

 WRIA:
 22.0000

 Fish Use:
 No

 FUP Criteria:
 Physical

OWNER	
Name:	Grays Harbor
Type:	County

WGS 84, decimal de	egrees	Report Log	iged
Latitude:	47.06223	✓ Field Revie	ew .
Longitude:	-123.82599	Threshold	Determination
WA state plane sout	h (NAD 27, feet)	Expanded	Threshold Determination
East:	1,171,623	Downstrea	m Check
North:	648,008	Physical S	urvey
Location / Direction	ns:	SPECIES POTENTI	AL
0 1	proximately 5.8 miles north	Sockeye	Sea Run Cutthroat
of the E Hoquiam Ro	d/Broadway Ave junction.	Pink	Resident Trout
		Chum	Dolly/Bull Trout
Site Comments:		Chinook	Brook Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

SUMMART INFURMATION		
Review Date:	8/7/2003	
Field Crew:	Glore/Peterson	
Barrier		
Passability (%)		
Method		
Repair Status		
Problem		

PLUNGE POOL DESCRIPTION

OHW < 0.6 meters.

CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

Brown Trout

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	



Mason Conservation District

Site ID: **127Q0090** Fish Use: No PI: Barrier:

SIT	ΓF	ח	FS	CRI	IPT		J
JI.	_	$\boldsymbol{-}$	டப	\mathbf{c}		-	ч

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	09W

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude: 47.05740		
Longitude:	-123.83446	
WA state plane south (NAD 27, feet)		
East: 1,169,439		

646,336

Location / Directions:

North:

Water crossing is approximately 5.3 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

OHW < 0.6 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.00
Apron	
Fill Depth (m)	
Tidegate	



Mason Conservation District

Site ID:

PI:

127Q0091

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.05660		
Longitude:	-123.83505		

WA state plane south (NAD 27, feet)

1,169,280 646,051 North:

SI

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
V	Steelhead	

WATERBODY

OWNER

Name:

Type:

Stream:	Berryman Cr
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0145
Fish Use:	Yes
FUP Criteria:	Mapped

Grays Harbor

County

Location / Directions:

Water crossing is approximately 5.25 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.10		
OHW (m)	4.00		
Max Depth (m)	0.50		
CHANNEL DESCRIPTION			

Toe Width (m)	2.40
Span/Toe Ratio	0.63

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	1.51
Rise (m)	1.53
Length (m)	25.13
Slope (%)	5.50
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.14
Apron	No
Fill Depth (m)	7.00
Tidegate	No



Mason Conservation District

Site ID:	127Q0092	Fish Use:	No
PI:		Barrier:	

CITE DECEDIBIION

SITE DESCR	IPTION				
GENERAL LOCA	RAL LOCATION POSITIONAL DATA EVALUATION LEVEL COMPLETE		ATION LEVEL COMPLETED		
Road Name:	East Hoquiam Rd	WGS 84, decimal deg	grees		Report Logged
County:	Grays Harbor	Latitude:	47.05425	✓	Field Review
1/4 Section:	SW	Longitude:	-123.83680		Threshold Determination
Section:	8	WA state plane south	(NAD 27, feet)		Expanded Threshold Determination
Township:	18N	East:	1,168,808		Downstream Check
Range:	09W	North:	645,211		Physical Survey
WATERBODY		Location / Directions	s:	SDECIE	S POTENTIAL
Stream:	unnamed	Water crossing is app	proximately 5.1 miles north	JFECIE	Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138		Broadway Ave junction.		Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No	014 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			Chinook Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout
OWNER		OHW< 0.6 meters.			Steelhead
Name:	Grays Harbor				
Type:	County				
LEVEL A AN	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DES	CRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	8/7/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Peterson	OHW (m)		Length ((m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		CHANNEL DESCRIP	PTION	Rearing	(sq m)
Method		-		9	,
Repair Status		Toe Width (m)			
Problem		Span/Toe Ratio			

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	0.50
WDIC (m)	0.03
Apron	
Fill Depth (m)	2.00
Tidegate	



Mason Conservation District

Site ID:	127Q0093	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA GENERAL LOCATION EVALUATION LEVEL COMPLETED Report Logged East Hoquiam Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.05425 Field Review County: Latitude: Threshold Determination -123.83690 SW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 8 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,168,783 09W Physical Survey Range: 645,214 North: WATERBODY **Location / Directions:** SPECIES POTENTIAL Stream: unnamed Water crossing is approximately 5.05 miles Sockeye Sea Run Cutthroat Tributary To: EF Hoquiam R 22.0138 north of the E Hoquiam Rd/Broadway Ave Pink Resident Trout junction. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho OHW< 0.6 meters. OWNER Steelhead

LEVEL A ANALYSIS

Name:

Type:

SUMMARY INFORMATION PLUNGE POOL DESC

Grays Harbor

County

SUMMARY INFORMATION		PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT GAIN	
Review Date:	8/7/2003	Length (m)	Survey Type:	
Field Crew:	Glore/Peterson	OHW (m)	Length (m):	
Barrier		Max Depth (m)	Spawning (sq m)	
Passability (%)		CHANNEL DESCRIPTION	Rearing (sq m)	
Method			3(41)	
Repair Status		Toe Width (m)		
Problem		Span/Toe Ratio		

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	



Mason Conservation District

Site ID:

PI:

127Q0094

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	8
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05419	
Longitude:	-123.83769	
WA state plane south (NAD 27, feet)		
East:	1,168,586	
No wile.	645 199	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 5.0 miles north of the E Hoquiam Rd/Broadway Ave junction.

SPECIES POTENTIAL

I LCILO I	OILIVIIAL	
☐ So	ckeye	✓ Sea Run Cutthroa
Pir	nk	✓ Resident Trout
Ch	num	Dolly/Bull Trout
Ch	ninook	Brook Trout
✓ Co	oho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	Grays Harbor
Гуре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	1.20	
Span/Toe Ratio	0.64	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.77
Rise (m)	0.77
Length (m)	23.12
Slope (%)	5.50
Bed Material	No
Outfall Drop (m)	3.50
WDIC (m)	0.01
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

No plunge pool measurements due to confluence with adjacent stream. Outfall is onto 3.0 meter slide. Fish passage most likely zero.



Mason Conservation District

Site ID:

PI:

127Q0095

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	7
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05286	
Longitude:	-123.84118	
WA state plane south (NAD 27, feet)		
East:	1,167,695	
North:	644.751	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 4.95 miles north of the E Hoquiam Rd/Broadway Ave junction.

SPECIES POTENTIAI

PECIE	3 FUI EN HAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
✓	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Seasonal wetland upstream of pipe.

Length (m)	3.80
OHW (m)	2.70
	0.40
Max Depth (m)	0.40
CHANNEL DESCRIPTION	
Toe Width (m)	1.10

0.85

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.93
Rise (m)	0.91
Length (m)	18.28
Slope (%)	0.30
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	Yes

Culvert Comments:

Span/Toe Ratio

Level B not applicable due to tidal influences.



Mason Conservation District

Site ID: PI: 127Q0096

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	7
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05158	
Longitude:	-123.84287	
WA state plane south (NAD 27, feet)		
East:	1,167,255	
North:	644,302	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biolgical

Location / Directions:

Site Comments:

Water crossing is approximately 4.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

SPECIES POTENTIAL

PECIES POTENTIAL			
	Sockeye	✓ Sea Run Cutthroa	
	Pink	Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
~	Coho	Brown Trout	
✓	Steelhead		

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Juvenile coho identified at site.

Length (m)	6.10	
OHW (m)	3.90	
Max Depth (m)	0.80	
CHANNEL DESCRIPTION		

2.40

0.39

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1		
RND		
PCC		
0.94		
0.94		
12.99		
1.80		
No		
0.00		
0.18		
No		
1.00		
No		

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0097

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees 47.05138 Latitude: -123.84557 Longitude: WA state plane south (NAD 27, feet) 1,166,580 644,260 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Biolgical

Location / Directions:

Site Comments:

Water crossing is approximately 4.5 miles north of the E Hoquiam Rd/Broadway Ave junction.

Juvenile coho identified downstream of culvert.

PECIES PO	IENIIAL		
Sock	кеуе	√ S	Sea Run Cutthroat
Pink		√ R	Resident Trout
Chui	m		Oolly/Bull Trout
Chin	ook	B	Brook Trout
✓ Coh	o	B	Brown Trout
✓ Stee	lhead		

OWNER

Name:	Grays Harbor
Гуре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.60	
OHW (m)	1.90	
Max Depth (m)	0.40	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.95
0.95
11.98
2.30
No
0.00
0.11
No
1.00
No

Toe Width (m) 1.90 Span/Toe Ratio 0.50

Culvert Comments:

Stream channel has been modified, filled stream with gravel substrate during road widening project.



Mason Conservation District

Site ID:

PI:

127Q0098

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL	LOCATION
---------	----------

Road Name:	Private Dr
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05159	
Longitude:	-123.84593	
WA state plane south (NAD 27, feet)		
East:	1,166,494	

644,340

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

North:

Water crossing is approximately 4.5 miles north of the E Hoquiam Rd/Broadway Ave junction, beneath private drive for residence at 1957 E Hoquiam Rd.

Site Comments:

SPECIES POTENTIA

PECIES PUTEN	IIAL
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhea	d

OWNER

Name:	Alan and Pamela Venes
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Neview Date.	0/1/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.80	
OHW (m)	1.00	
Max Depth (m)	0.25	
CHANNEL DESCRIPTION		
Toe Width (m)	1.00	

0.85

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.85
Rise (m)	0.85
Length (m)	7.42
Slope (%)	0.94
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.17
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0099

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Barrier:

Yes

No

SITE DESCRIPTION **GENERAL LOCATION**

East Hoquiam Rd
Grays Harbor
NW
18

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

junction.

Site Comments:

Latitude: 47.04958 -123.85389 Longitude: WA state plane south (NAD 27, feet) 1,164,480 643,693 North:

Water crossing is approximately 4.05 miles

northwest of the E Hoquiam Rd/Broadway Ave

S

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

WATERBODY

Township:

Range:

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

18N

09W

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.60
OHW (m)	1.80
Max Depth (m)	0.20

CHANNEL DESCRIPTION

Toe Width (m)	1.20
Span/Toe Ratio	0.78

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PCC
0.94
0.94
12.98
0.00
Yes
0.00
0.22
No
1.00
No



Mason Conservation District

Site ID:

PI:

127Q0100

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	13
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.04601	
Longitude:	-123.85995	
WA state plane south (NAD 27, feet)		
East:	1,162,915	

642,456

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

North:

Water crossing is approximately 3.65 miles north of the E Hoquiam Rd/Broadway Ave junction.

Stream meets physical requirements.

SPECIES POTENTIAL

PECIE	3 FUTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	4.80	
OHW (m)	1.50	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		
CHANNEL DESCRIPTION		

1.50

0.41

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.62
Rise (m)	0.62
Length (m)	12.09
Slope (%)	1.20
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.08
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0101

Fish Use:

Yes

Barrier: Unk

O.T.	DECODI	DT1011
SILE	DESCRI	PHON

GENERAL LOCATION		
Road Name:	East Hoquiam Rd	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	24	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.03345	
Longitude:	-123.86962	
WA state plane south (NAD 27, feet)		
East:	1,160,311	
North:	637,979	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

OHW > 0.60 meters.

Water crossing is approximately 2.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

Wetlands upstream and downstream of culvert.

SPECIES POTENTIAL

PECIES P	UTENTIAL	
☐ So	ckeye	Sea Run Cutthroa
Pir	nk	✓ Resident Trout
Ch	um	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)			
Span/Toe Ratio			

POTENTIAL HABITAT GAIN

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.20
Slope (%)	0.99
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.23
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:	127Q0102	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged East Hoquiam Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.02967 **~** Field Review Latitude: County: Threshold Determination -123.86907 SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 24 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,160,389 10W Physical Survey Range: 636,599 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 2.35 miles Sockeye Sea Run Cutthroat north of the E Hoquiam Rd/Broadway Ave Tributary To: EF Hoquiam R 22.0138 Pink Resident Trout junction. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho No defined stream channel upstream, wetland OWNER downstream of culvert. OHW < 0.60 meters. Steelhead Grays Harbor Name: County Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 8/7/2003 Length (m) Survey Type: Glore/Peterson Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	PCC	
Span (m)	0.32	
Rise (m)	0.32	
Length (m)		
Slope (%)		
Bed Material		
Outfall Drop (m)		
WDIC (m)		
Apron		
Fill Depth (m)		
Tidegate		

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0103

Fish Use:

Yes Unk

Barrier:

SITE DESCRIPTION

GENERAL LOCATION

Road Name: East Hoquiam Rd County: Grays Harbor 1/4 Section: SE

 Section:
 24

 Township:
 18N

 Range:
 10W

WATERBODY

 Stream:
 unnamed

 Tributary To:
 EF Hoquiam R 22.0138

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

OWNER

Name: Grays Harbor
Type: County

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.02835

 Longitude:
 -123.87003

 WA state plane south (NAD 27, feet)

East: 1,160,129

North: 636,126

Location / Directions:

Water crossing is approximately 2.2 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

Wetland downstream of the pipe. Sculpins in pool upstream of pipe. OHW > 0.60 meters.

EVALUATION LEVEL COMPLETED

Field Review
Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	
=		
\equiv	-	

Pink

Chum

☐ Chinook ☐ Coho

✓ Steelhead

✓ Sea Run Cutthroat

Resident Trout

Dolly/Bull Trout
Brook Trout

DIOOK HOUL

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/7/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)
OHW (m)
Max Depth (m)

CHANNEL DESCRIPTION

Toe Width (m)
Span/Toe Ratio

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.32
Rise (m)	0.32
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Downstream end is buried and upstream end has broken off. Measurements not obtainable due to wetland downstream and failed culvert.



Mason Conservation District

Site ID: 127Q0104

PI:

Fish Use: Yes

Barrier:

Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	25
Township:	18N
Range:	10W

25	
18N	
10W	

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0140
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Grays Harbor
Туре:	County

POSITIONAL DATA

WGS 84	, decimal	degree
---------------	-----------	--------

Latitude:	47.02561	
Longitude:	-123.86764	
WA state plane south (NAD 27, feet)		
East:	1,160,681	
North:	635,102	

Location / Directions:

Water crossing is approximately 2.0 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

Site is backwatered at time of sample. Surrounding landowners report continued problems with beavers at this site.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
V	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Snan/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	
Material	
Span (m)	
Rise (m)	
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:

Unable to obtain measurements because pipe is submerged out of sight on both ends. Wire mesh screen on upstream end of pipe, small beaver dam 10 meters downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0105

Fish Use: Barrier: Yes Unk

District

SITE DESCRIPTION

CENEDAL	LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	25
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.01974	
Longitude:	-123.86630	
WA state plane south (NAD 27, feet)		
East:	1,160,925	

632,951

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

OHW > 0.60 meters.

North:

Water crossing is approximately 1.6 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

Predominantly ditch drainage upstream of pipe.

SPECIES POTENTIAL

PECIE	SFUILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
✓	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.00	
OHW (m)	1.90	
Max Depth (m)	0.60	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.60
Rise (m)	0.60
Length (m)	10.65
Slope (%)	0.66
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.60
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:	127Q0106	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged East Hoquiam Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.01806 **~** Field Review County: Latitude: -123.86671 Threshold Determination NE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 25 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,160,796 10W Physical Survey Range: 632,342 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.45 miles Sockeye Sea Run Cutthroat northwest of the E Hoquiam Rd/Broadway Ave Tributary To: EF Hoquiam R 22.0138 Pink Resident Trout junction. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho OHW < 0.60 meters. OWNER Steelhead Grays Harbor Name: County Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 8/13/2003 Length (m) Survey Type: Glore/Peterson Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.29
Rise (m)	0.29
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	
Apron	
Fill Depth (m)	1.00
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0107

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	SE
Section:	25
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.01366	
Longitude:	-123.86791	
WA state plane south (NAD 27, feet)		
East:	1,160,428	
North:	630,750	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 1.1 miles northwest of the E Hoquiam Rd/Broadway Ave junction.

3 pipes upstream on private property, need to get permission to survey. Address is 1416 E. Hoquiam Rd.

LCIL	SPOILNIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.30	
OHW (m)	1.90	
Max Depth (m)	0.50	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.46
Rise (m)	0.46
Length (m)	11.66
Slope (%)	2.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Toe Width (m)	1.30
Span/Toe Ratio	0.35

Culvert Comments:

Stream channel is excavated on upstream end.



Mason Conservation District

Site ID:

PI:

47 00639

127Q0108

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	18N
Range:	10W

unnamed

EF Hoquiam R 22.0138

22.0000

Yes

Physical

Grays Harbor

County

POSITIONAL DATA

WGS 84, decimal de	gree
Latituda	

Lalliuue.	47.00033
Longitude:	-123.87211
WA state plane sout	h (NAD 27, feet)

East: 1,159,269 628,146 North:

Location / Directions:

Water crossing is approximately 2.6 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

Wetland habitat upstream and downstream. Culvert is near mapped stream crossing of unnamed 22.0139 which probably contributes flow. OHW>0.60m.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIES PO	IENIIAL		
Sock	кеуе	√ S	Sea Run Cutthroat
Pink		√ R	Resident Trout
Chui	m		Oolly/Bull Trout
Chin	ook	B	Brook Trout
✓ Coh	o	B	Brown Trout
✓ Stee	lhead		

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.42
Length (m)	11.15
Slope (%)	-1.51
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.42
Apron	No
Fill Depth (m)	
Tidegate	No

Culvert Comments:

Downstream channel is excavated through wetland. Backwatered ditch delivery upstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0109

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

East Hoquiam Rd Road Name: Grays Harbor County: NW 1/4 Section:

Section: 36 18N Township: 10W Range:

WATERBODY

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Mapped

OWNER

Name: Hoquiam City Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.00284 Latitude: -123.87474 Longitude: WA state plane south (NAD 27, feet)

1,158,557 626,880 North:

Location / Directions:

Water crossing is approximately 0.30 miles north of the E Hoquiam Rd/Broadway Ave junction.

Site Comments:

Wetland downstream of culvert.

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check Physical Survey

SPECIES POTENTIAL

	Sockeye
_	

Pink

Chum

Chinook

✓ Sea Run Cutthroat Resident Trout

Dolly/Bull Trout

Brook Trout

Brown Trout

Coho Steelhead

V

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.00
OHW (m)	1.10
Max Depth (m)	0.60

CHANNEL DESCRIPTION

Toe Width (m) Span/Toe Ratio

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.97
Rise (m)	0.94
Length (m)	34.88
Slope (%)	0.56
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.33
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0110

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	East Hoquiam Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.00281 -123.87998 Longitude: WA state plane south (NAD 27, feet) 1,157,251 626,928 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.05 miles west of the E Hoquiam Rd/Broadway Ave junction.

SPECIES POTENTIAL

LOIL		
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Hoquiam
Туре:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/13/2003
Field Crew:	Glore/Peterson
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.30		
OHW (m)	2.80		
Max Depth (m)	0.45		
CHANNEL DESCRIPTION			
Toe Width (m)			

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CAL
Span (m)	0.58
Rise (m)	0.57
Length (m)	12.20
Slope (%)	1.15
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Span/Toe Ratio

Culvert Comments:

Rebar grate on upstream end of pipe. Toe width unavailable due to channel modification.



Mason Conservation District

Site ID:

PI:

127Q0110

Fish Use:

Yes

Barrier: Yes

CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PCC
Span (m)	0.68
Rise (m)	0.68
Length (m)	11.47
Slope (%)	1.40
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Rebar grate on upstream end of pipe, end broken off lying in pool above pipe.



Mason Conservation District

Site ID:

PI:

127Q0111

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SE
Section:	36
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
47.00167		
-123.88094		
WA state plane south (NAD 27, feet)		
1,156,993		
626,520		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 120 meters south of the E Hoquiam Rd/Broadway Ave junction.

approximately 30 meters. OHW > 0.6 meters.

SPECIES POTENTIAL

LOILO I OTLIVIIA	\ _
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam	
Type:	City	

LEVEL A ANALYSIS SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Downstream channel excavated for

Length (m)	2.80	
OHW (m)	1.20	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		
Toe Width (m)	0.70	

0.47

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
SST
0.33
0.33
17.67
-0.67
Yes
0.00
0.26
No
1.00
No

Span/Toe Ratio

Culvert Comments:

Upstream end of culvert is precast concrete with a smooth steel pipe on downstream end. Level B not applicable due to grade break within culvert.



Mason Conservation District

Site ID: 127Q0112

PI:

Fish Use:

No

Barrier:

CITE	DESCRIPTION
31 I E	DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	Private Dr	WGS 84, decimal de	grees		Report Logged
County:	Grays Harbor	Latitude:	46.99521	✓	Field Review
1/4 Section:	NW	Longitude:	-123.88113		Threshold Determination
Section:	1	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination
Township:	17N	East:	1,156,846		Downstream Check
Range:	10W	North:	624,169		Physical Survey
WATERBODY		Location / Direction	s:	SPECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is loc	ated beneath private drive		Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam R 22.0138	for residence @ 1649			Pink Resident Trout
WRIA:	22.0000				
Fish Use:	No				
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout
OWNER		OHW < 0.60 meters.			Coho Brown Trout Steelhead
Name:	Hoquiam			_	
Type:	City				

LEVEL A ANALYSIS

SUMMARY INFORM	MATION	PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT
Review Date:	8/18/2003	Length (m)	Survey Type:
Field Crew:	Glore/Lutz	OHW (m)	Length (m):
Barrier		Max Depth (m)	Spawning (sq m)
Passability (%)		CHANNEL DESCRIPTION	Rearing (sq m)
Method		CHANNEL DESCRIPTION	Treating (54 m)
Repair Status		Toe Width (m)	
Problem		Span/Toe Ratio	

AT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.92
Rise (m)	0.92
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	0.30
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0113

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

Range:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

FUP Criteria:

WATERBODY

Tributary To:

GENERAL LOCATION Road Name: Broadway Ave

 County:
 Grays Harbor

 1/4 Section:
 NW

 Section:
 1

 Township:
 17N

10W

unnamed

EF Hoquiam R 22.0138

22.0000

Unk

Physical

Hoquiam City WGS 84, decimal degrees

POSITIONAL DATA

 Latitude:
 46.99340

 Longitude:
 -123.88115

 WA state plane south (NAD 27, feet)

 East:
 1,156,812

623,510

North: Location / Directions:

Water crossing is approximately 50 meters north of the Ferry St/Broadway Ave junction.

Site Comments:

Downstream channel is ditched flowing 20 meters to EF Hoquiam River confluence.

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream CheckPhysical Survey

SPECIES POTENTIAL

Sockeye
Pink

Chum

☐ Chinook ✔ Coho

✓ Cono

Steelhead

☐ Dolly/Bull Trout ☐ Brook Trout

Resident Trout

✓ Sea Run Cutthroat

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

CHANNEL DESCRIPTION

Toe Width (m)

Span/Toe Ratio

POTENTIAL HABITAT GAIN

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CAL
Span (m)	0.54
Rise (m)	0.54
Length (m)	11.70
Slope (%)	2.09
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.80
Tidegate	No

Culvert Comments:

Culvert 1.2 fails due to 2.2 failure.



Mason Conservation District

Site ID: PI:

127Q0113

Fish Use:

Barrier:

Unk Yes

CULVERT DESCRIPTION

2.2
RND
SST
0.46
0.46
11.25
-2.34
No
0.00
0.00
No
0.90
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0114

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name: Broadway Ave Grays Harbor County: $\mathsf{N}\mathsf{W}$ 1/4 Section: Section: 1 17N Township: 10W Range:

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 46.99094 -123.88005 Longitude: WA state plane south (NAD 27, feet) 1,157,048 622,603 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

Location / Directions:

Site Comments:

downstream.

Water crossing is approximately 250 meters south of the Ferry St/Broadway Ave junction.

Confluence with EF Hoquiam 40 meters

S

PECIES POTENTIAL	
Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Hoquiam Name: City Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.46
Length (m)	16.26
Slope (%)	2.05
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.20
Tidegate	No

Culvert Comments:

Excavated ditch drainage upstream and



Mason Conservation District

Site ID:

PI:

127Q0115

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal de	grees	
Latitude:	46.98714	
Longitude:	-123.87594	
WA state plane south (NAD 27, feet)		
East:	1,158,014	
North:	621,173	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

meters downstream.

Water crossing is approximately 115 meters south of the Rayonier St/Broadway Ave junction.

Confluence with EF Hoquiam approximately 35

SPECIES POTENTIAL

	20120101211111		
	Sockeye	Sea Run Cutthroa	
	Pink	Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
✓	Coho	Brown Trout	
✓	Steelhead		

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.50	
OHW (m)	0.25	
Max Depth (m)	0.85	
CHANNEL DESCRIPTION		
Toe Width (m)	0.60	

0.90

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.54
Rise (m)	0.52
Length (m)	18.38
Slope (%)	4.03
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

127Q0116

Fish Use: Barrier:

Yes Unk

PI:

SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION**

Broadway Ave Grays Harbor

SW

1

17N

10W

Hoquiam City

WGS 84, decimal degrees

46.98327 Latitude: -123.87352 Longitude:

WA state plane south (NAD 27, feet)

1,158,557 619,736 North:

WATERBODY

Road Name:

1/4 Section:

County:

Section:

Range:

OWNER

Name:

Type:

Township:

Stream: unnamed Tributary To: EF Hoquiam R 22.0138 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

Location / Directions:

Water crossing is approximately 0.45 miles northeast of the B St/Broadway Ave junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	
\neg	Dial.	

Pink

Chum

Chinook

V Coho Steelhead

Brook Trout

Resident Trout

✓ Sea Run Cutthroat

Dolly/Bull Trout

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Toe Width (m) Span/Toe Ratio

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.63
Rise (m)	0.63
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	
WDIC (m)	0.02
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

Level A evaluation not possible, unable to locate downstream end.



Mason Conservation District

Site ID:

PI:

127Q0117

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.98282	
Longitude:	-123.87364	
WA state plane south (NAD 27, feet)		
East:	1,158,521	
North:	619,573	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.40 miles northeast of the B St/Broadway Ave junction.

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

Seasonal wetland upstream with no defined stream channel. Confluence with EF Hoquiam approximately 20 meters downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	1.00	
OHW (m)	1.20	
Max Depth (m)	0.60	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.60
Rise (m)	0.60
Length (m)	43.20
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.50
WDIC (m)	0.00
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Stream width measurements not available due to ditching. Bars on upstream end of culvert act a grate. Second culvert 5 meters downstream, site 127Q0118.



Mason Conservation District

Site ID:

PI:

127Q0118

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Broadway Ave
County:	Grays Harbor
1/4 Section:	SW
Section:	1
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.98299	
Longitude:	-123.87417	
WA state plane south (NAD 27, feet)		
East:	1,158,391	
North:	619,643	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam R 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.40 miles northeast of the B St/Broadway Ave junction. Downstream 5 meters from culvert 127Q0117.

PECIES P	UTENTIAL	
☐ So	ckeye	Sea Run Cutthroa
Pir	nk	✓ Resident Trout
Ch	um	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

Confluence with EF Hoquiam 10 meters downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	8/18/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.80	
OHW (m)	1.20	
Max Depth (m)	0.55	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.58
Rise (m)	0.58
Length (m)	16.20
Slope (%)	6.26
Bed Material	No
Outfall Drop (m)	1.30
WDIC (m)	0.00
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Toe Width (m) Span/Toe Ratio

Culvert Comments:

Rebar grating on upstream end of culvert. Stream width measurements not available due to ditching. Fish passage most likely near zero.



Mason Conservation District

Site ID:

PI:

127Q0119

SPECIES POTENTIAL

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Failor Lake Rd
County:	Grays Harbor
1/4 Section:	NW
Section:	27
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.10482	
Longitude:	-123.91430	
WA state plane south (NAD 27, feet)		
East:	1,150,305	
North:	664.467	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.40 miles west of the Failor Lake Rd/US 101 junction.

L

	Sockeye	Sea Run Cutthroat
Ш	Occincyc	Cca rtail Cattilloat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/11/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	5.10	
OHW (m)	3.50	
Max Depth (m)	0.70	
CHANNEL DESCRIPTION		

0.95

0.88

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Culvert Comments:

Toe Width (m)

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0120

Fish Use: Barrier:

Yes

No

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	Failor Lake Rd spur
County:	Grays Harbor
1/4 Section:	SW
Section:	27
Township:	19N
Range:	10W

unnamed

Hoquiam R 22.0137

22.0138

Physical

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.10423
Longitude:	-123.91243

WA state plane south (NAD 27, feet)

East: 1,150,763

North: 664,229

Location / Directions:

Water crossing is approximately 75 meters up first spur on Failor Lake Rd. Spur is approximately 0.30 miles west of the Failor Lake Rd/US 101 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

PECIES PUTENTIAL		
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/11/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	4.10
OHW (m)	2.40
Max Depth (m)	0.80

CHANNEL DESCRIPTION

Toe Width (m)	1.40
Span/Toe Ratio	0.75

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	1.05
Rise (m)	1.05
Length (m)	24.80
Slope (%)	0.44
Bed Material	No
Outfall Drop (m)	0.22
WDIC (m)	0.03
Apron	No
Fill Depth (m)	5.00
Tidegate	No

Culvert Comments:

Highly modified plunge pool, water flowing through rip rap at downstream control.



WRIA 22 Fish Passage Inventory Site ID: 127Q0121 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged Private Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.04287 **V** Field Review Latitude: County: Threshold Determination -123.97090 SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,135,231 10W Physical Survey 642,508 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.3 miles west Sockeye ✓ Sea Run Cutthroat Tributary To: Polson Cr 22.0176 of Ocean Beach Rd/private logging rd junction. Pink Resident Trout WRIA: 22.0177 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Old timber puncheon is failing. OHW = 1.40 **OWNER** Steelhead Atkins Tree Farm LLC Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%) **Bed Material**

Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0122 10.83

Fish Use:

Yes

Barrier:

Yes

SITE DESCRIPTION

IERAI		

Abandoned Rd
Grays Harbor
NE
18
18N
10W

unnamed

unnamed 22.0177

22.0000

Mapped

POSITIONAL DATA

WCC 04 desired degrees

WGS 84, decimal de	grees	
Latitude:	47.04817	
Longitude:	-123.96809	
WA state plane south (NAD 27 feet)		

1,136,015 East: 644,410 North:

Location / Directions:

Water crossing is approximately 100 meters west of the Dekay Rd/Ocean Beach Rd junction. Located on private property.

Site Comments:

Survey flagging above culvert " W L B 1".

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review

Threshold Determination **Expanded Threshold Determination**

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

Name:	Gronberg Credit Trust
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.66	
OHW (m)	2.13	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		

Toe Width (m)	1.26
Span/Toe Ratio	0.49

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	291
Spawning (sq m)	44
Rearing (sq m)	780

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.60
Length (m)	7.54
Slope (%)	4.90
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.46
Apron	No
Fill Depth (m)	0.60
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0123 8.76

Fish Use: Barrier:

Yes Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	18
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.04871	
Longitude:	-123.97040	

WA state plane south (NAD 27, feet) East: 1,135,450 644,631 North:

Location / Directions:

Water crossing is approximately 275 meters west of the Ocean Beach Rd/Dekay Rd junction. Located on private property behind house @ 455 Ocean Beach Rd.

Site Comments:

Private residence on left bank with lawn to banks edge.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination

Downstream Check Physical Survey

SPECIES POTENTIAL

LCIL	3 I OILMIIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

Stream: unnamed Tributary To: unnamed 22.0177 WRIA: 22.0000 Fish Use: FUP Criteria: Mapped

OWNER

WATERBODY

Name: Alonzo Long Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.61
OHW (m)	2.08
Max Depth (m)	0.32

CHANNEL DESCRIPTION

Toe Width (m)	1.18
Span/Toe Ratio	0.52

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	228
Spawning (sq m)	35
Rearing (sq m)	624

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	6.83
Slope (%)	2.30
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.28
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Thin layer of fine materials throughout pipe.



WRIA 22 Fish Passage Inventory Site ID: 127Q0124 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Abandoned Rd WGS 84, decimal degrees Report Logged Road Name: Grays Harbor 47.04846 **~** Field Review Latitude: County: -123.97117 Threshold Determination 1/4 Section: NE Longitude: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,135,254 10W Physical Survey 644,547 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.20 miles Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0177 northwest of the Ocean Beach Rd/Dekay Rd Pink Resident Trout junction. Site is 0.10 miles south of Ocean WRIA: 22.0000 Beach Rd on private property. Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Site appears to be abandoned hydro powered OWNER Steelhead **V** Arnold P Stroud Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

WRIA 22 Fish Passage Inventory Site ID: 127Q0125 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Abandoned Rd WGS 84, decimal degrees Report Logged Road Name: Grays Harbor 47.04822 **~** Field Review Latitude: County: Threshold Determination -123.97169 NE 1/4 Section: Longitude: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,135,119 10W Physical Survey 644,467 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.25 miles Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0177 northwest of the Dekay/Ocean Beach Rd Pink Resident Trout junction. Site is 0.10 miles south of Ocean WRIA: 22.0000 Beach Rd on private property. Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Site is puncheon/cut and fill. OWNER Steelhead **V** Margie A Ricarte Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:	127Q0126	Fish Use:	No
PI:		Barrier:	

CITE DECODIDATION

SITE DESCRI	IFTION					
GENERAL LOCATION		POSITIONAL DATA	POSITIONAL DATA		EVALUATION LEVEL COMPLETED	
Road Name:	Private Dr	WGS 84, decimal degrees	WGS 84, decimal degrees		Report Logged	
County:	Grays Harbor	Latitude:	47.05544	✓	Field Review	
1/4 Section:	SW	Longitude:	-123.95631		Threshold Determination	
Section:	8	WA state plane south (NA	D 27, feet)		Expanded Threshold Determination	
Township:	18N	East:	1,139,066		Downstream Check	
Range:	10W	North:	646,930		Physical Survey	
WATERBODY		Location / Directions:		SPECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is located	beneath private drive	□ □	Sockeye Sea Run Cutthroat	
Tributary To:	Polson Cr 22.0176	for residence @ 230 Deka			Pink Resident Trout	
WRIA:	22.0000	meters north of Dekay Rd	•		Chum Dolly/Bull Trout	
Fish Use:	No	Cita Cammanta			Chinook Brook Trout	
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout	
OWNER		OHW < 0.60 meters.			Steelhead	
Name:	Judy Morgan					
Type:	Private					
LEVEL A ANA	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DESCRI	PTION	POTEN	ITIAL HABITAT GAIN	
Review Date:	9/22/2003	Length (m)		Survey	Type:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawni	ng (sq m)	
Passability (%)] ,	NI	Rearing		
Method		CHANNEL DESCRIPTION	N	Nearing	3 (34 III)	
Danair Ctatus		Toe Width (m)				

CULVERT DESCRIPTION

Problem

1.1
RND
PVC
0.38
0.37
No
0.21
0.02
No
1.00
No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID: 127Q0127 Fish Use: PI:

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	Private Dr	
County:	Grays Harbor	
1/4 Section:	SW	
Section:	8	
Township:	18N	
Dange:	10\W	

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	Judy Morgan
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
47.05597		
-123.95639		
WA state plane south (NAD 27, feet)		
1,139,055		
647,124		

Location / Directions:

Water crossing is located near house @ 230 Dekay Rd, approximately 50 meters north of Dekay Rd.

Site Comments:

Langth (m)

Culverts drain excavated holding pond located near residence, drains to culvert 127Q0126.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

Barrier:

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	PVC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.20
Tidegate	No

Culvert Comments:

1.2 is left bank culvert.



Mason Conservation District

Site ID:

PI:

127Q0127

Fish Use:

No Barrier:

CULVERT DESCRIPTION

Sequencer:	2.2
Shape	RND
Material	PVC
Span (m)	0.30
Rise (m)	0.30
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

2.2 is right bank culvert



Mason Conservation District

Site ID:

PI:

127Q0128 9.60

Fish Use: Barrier:

Yes Yes

SITE DESCRIPTION

GENERAL LOCATION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	17
Township:	18N
Range:	10W

unnamed

Polson Cr 22.0176

22.0000

Mapped

Strimatter LC et al

Private

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.05162		
Longitude:	-123.95255		
WA state plane south (NAD 27, feet)			
East:	1,139,940		
North:	645,495		

Location / Directions:

Site location is approximately 1.25 miles west of the Dekay Rd/US 101 junction. Culvert is on abandoned road 400 meters due south.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
~	Downstream Check
~	Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
✓	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/22/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	RR
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	1.23	

0.77

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	418
Spawning (sq m)	558
Rearing (sq m)	454

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.95
Rise (m)	0.95
Length (m)	7.19
Slope (%)	1.67
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.13
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Downstream end of pipe is recessed 0.5 meters. Upstream end is clogged with debris and pipe is squashed to oval shape. Plunge pool measurements unavailable as stream flows directly into riffles below the pipe.



Mason Conservation District

Site ID:

127Q0129 9.20

Fish Use:

Yes

PI:

Barrier:

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	9
Township:	18N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.05802
Longitude:	-123.93939
WA state plane south (NAD 27, feet)	
East:	1,143,320
North:	647,684

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
✓	Downstream Check
✓	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Polson Cr 22.0176
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Site location is approximately 0.60 miles west of the Dekay Rd/US 101 junction. Culvert is 150 due north on abandoned road.

FLCIL	3 FOILNIIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Michael and Lyndee Snow
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	9/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	RR
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Pipe is obviously undersized.

Length (m)	2.03
OHW (m)	1.25
Max Depth (m)	0.30
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	FS
Length (m):	626
Spawning (sq m)	129
Rearing (sq m)	258

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.20
Rise (m)	0.19
Length (m)	6.01
Slope (%)	13.30
Bed Material	No
Outfall Drop (m)	0.26
WDIC (m)	0.02
Apron	No
Fill Depth (m)	0.75
Tidegate	No

Toe Width (m)	1.30
Span/Toe Ratio	0.15

Culvert Comments:

Upstream end of pipe sits above stream, water flows through and beneath the downstream end of the pipe. Fish passage most likely near zero.



Mason Conservation District

Site ID:

PI:

127Q0130

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5302
County:	Grays Harbor
1/4 Section:	SW
Section:	18
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.13088

Longitude: -123.84922

WA state plane south (NAD 27, feet)

East: 1,166,901

North: 673,268

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 10 meters north of the 5300/5302 junction.

Small stream crosses beneath road twice

before entering downstream wetland.

SPECIES POTENTIAL

PECIES POTENTIAL			
	Sockeye	Sea Run Cutthroa	
	Pink	Resident Trout	
	Chum	Dolly/Bull Trout	
	Chinook	Brook Trout	
✓	Coho	Brown Trout	
	Steelhead		

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.64	
OHW (m)	2.62	
Max Depth (m)	0.27	
CHANNEL DESCRIPTION		

1.02

0.58

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.59
0.61
14.47
0.97
No
0.00
0.15
No
1.30
No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Culvert fails for slope, margin of error makes 0.97=1%.



Mason Conservation District

Site ID:

PI:

47.13097

127Q0131

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	18
Township:	19N

09W

POSITIONAL DATA

WGS 84, decimal degree	ees
Latitude:	

Longitude: -123.84939

WA state plane south (NAD 27, feet)

East: 1,166,860

North: 673,303

EVALUATION LEVEL COMPLETED Report Logged

✓	Field Review
	Threshold Determinati

Expanded Threshold Determination

Downstream CheckPhysical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	unnamed 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 20 meters west of the 5300/5302 junction.

SPECIES POTENTIAL

	Sockeye	✓ Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

Site Comments:

Wetland downstream connected to stream flowing from pipe 127Q0130.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION	
Max Depth (m)	
OHW (m)	
Length (m)	

1.02

0.60

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	10.66
Slope (%)	0.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.61
Apron	No
Fill Depth (m)	1.20
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Plunge pool obscured by downstream wetland (upstream toe = 1.02). Both ends of pipe submerged, upstream end deformed. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0132

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	NW
Section:	18
Township:	19N

09W

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

west of the 5300/5302 junction.

 Latitude:
 47.13211

 Longitude:
 -123.85261

 WA state plane south (NAD 27, feet)

East: 1,166,077

North: 673,752

Water crossing is approximately 0.25 miles

Physical Survey

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Downstream Check

Expanded Threshold Determination

Field Review

_		
SPECIE	S POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout

WATERBODY

Range:

 Stream:
 unnamed

 Tributary To:
 MF Hoquiam 22.1065

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

Site Comments: Wetland habitat u

Wetland habitat upstream and downstream. Survey stake at site "5300, #4772, 2.038".

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	3.36
OHW (m)	3.98
Max Depth (m)	0.61

CHANNEL DESCRIPTION

Toe Width (m)	1.54
Span/Toe Ratio	0.48

POTENTIAL HABITAT GAIN

Steelhead

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.74
Rise (m)	0.73
Length (m)	10.71
Slope (%)	0.37
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.69
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Toe measurement taken US of culvert. Level B not applicable due to wetland habitat.



Mason Conservation District

Site ID:

PI:

127Q0133

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Road Name:	5300.324
County:	Grays Harbor
1/4 Section:	NE
Section:	24
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.12492	
Longitude:	-123.85859	
WA state plane south (NAD 27, feet)		
East:	1,164,480	
North:	671,195	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.20 miles southwest of the 5300.3/5300.324 junction.

SPECIES POTENTIAL

	O I O I LIVIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

Site Comments:

Survey stake at culvert: "5300.324, #5322, 0.181". Wetland vegetation upstream and downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	UD
Problem	velocity

PLUNGE POOL DESCRIPTION

Length (m)	3.05	
OHW (m)	1.25	
Max Depth (m) 0.27		
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1	
RND	
CST	
0.61	
0.61	
10.79	
1.95	
Yes	
0.00	
0.23	
No	
2.00	
No	

Length (m)	3.05
OHW (m)	1.25
Max Depth (m)	0.27

Toe Width (m)	1.00
Span/Toe Ratio	0.61

Culvert Comments:

Small beaver dam approximately 50 meters downstream, stream flow decreases beyond.



Mason Conservation District

Site ID:

PI:

47.13088

127Q0134

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	5300
County:	Grays Harbor
1/4 Section:	SE
Section:	13
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal de	grees
Latitude:	

Longitude:	-123.86695
WA state plane south (NAD 27, feet)	
East:	1,162,492

673,456 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 1.40 miles east of the 5300/US 101 junction. $\label{eq:constraint}$

Beaver dam 15 meters upstream of pipe.

FECILS	OILNIIAL	
☐ So	ckeye	Sea Run Cutthroat
Pir	nk	✓ Resident Trout
Ch	um	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.10
OHW (m)	1.70
Max Depth (m)	0.30
CHANNEL DESCRIPTION	

Toe Width (m)	0.65
Span/Toe Ratio	0.94

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	9.02
Slope (%)	2.70
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.22
Apron	No
Fill Depth (m)	1.00
Tidegate	No



Mason Conservation District

Site ID:	127Q0135	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

OITE DEGGI	an rioit					
GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED		
Road Name:	5300	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.13098	✓	Field Review	
1/4 Section:	SE	Longitude:	-123.86795		Threshold Determination	
Section:	13	WA state plane sout	th (NAD 27, feet)		Expanded Threshold Determination	
Township:	19N	East:	1,162,244		Downstream Check	
Range:	10W	North:	673,504		Physical Survey	
WATERBODY		Location / Direction	ns:	SDECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is ap	proximately 1.30 miles east		Sockeye Sea Run Cutthroat	
Tributary To:	MF Hoquiam 22.0165	of the 5300/US 101			Pink Resident Trout	
WRIA:	22.0000				Chum Dolly/Bull Trout	
Fish Use:	No				Chinook Brook Trout	
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout	
OWNER		OHW = 0.30 meters. Stream is very small with perennial vegetation growing through the		Steelhead		
Name:	ayonier Timberlands Oprtg C	channel.				
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFO	ORMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN	
Review Date:	10/29/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnir	ng (sq m)	
Passability (%)		CHANNEL DESCRI	IPTION	Rearing		
Method			11014	oamig	7 (~7)	
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				

CULVERT DESCRIPTION

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.36
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	0.90
Tidegate	No



Mason Conservation District

Site ID: 127Q0136 Fish Use: PI:

No

Barrier:

CITE	DESCRIPTION	ı
SIIL	DESCIVIL LIGH	ı

GENERAL LOCATION POSITIONAL DATA EVALUATION LEVEL COMPLETI		COMPLETED				
Road Name:	5300	WGS 84, decimal degrees			Report Logge	d
County:	Grays Harbor	Latitude:	47.13095	✓	Field Review	
1/4 Section:	SW	Longitude:	-123.87328		Threshold De	termination
Section:	13	WA state plane sout	th (NAD 27, feet)		Expanded Th	reshold Determination
Township:	19N	East:	1,160,919		Downstream (Check
Range:	10W	North:	673,549		Physical Surv	ey
WATERBODY		Location / Direction	ns:	SPECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is an	proximately 1.10 miles east		Sockeye	Sea Run Cutthroat
Tributary To:	MF Hoquiam 22.0165	of the 5300/US 101			Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No					
FUP Criteria:	Physical	Site Comments:			Chinook	Brook Trout
OWNER		•	n through channel on No measurable OHW.		Coho Steelhead	Brown Trout
Name:	ayonier Timberlands Oprtg C					
Type:	Private					

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/29/2003	1	
Field Crew:	Glore/Lutz	(
Barrier		1	
Passability (%)			
Method			
Repair Status		-	
Darleton			

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
,	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.85
Tidegate	No



Mason Conservation District

Site ID:	127Q0137	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

CENERAL LOC	ATION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED	
GENERAL LOCA		7		EVALU	ATION LEVEL COMPLETED	
Road Name:	5300.1	WGS 84, decimal de		,	Report Logged	
County:	Grays Harbor	Latitude:	47.13377	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.86782		Threshold Determination	
Section:	13	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination	
Township:	19N	East:	1,162,321		Downstream Check	
Range:	09W	North:	674,519		Physical Survey	
WATERBODY		Location / Direction	s:	SDECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is app	proximately 0.50 miles		Sockeye Sea Run Cutthroat	
Tributary To:	MF Hoquiam 22.0165	northeast of the 5300				
WRIA:	22.0000				Pink Resident Trout	
Fish Use:	No				Chum Dolly/Bull Trout	
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout	
OWNER		Ditch deliver upstream, small wetland downstream. OHW < 0.60 meters.		Coho Brown Trout Steelhead		
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFO	DRMATION	PLUNGE POOL DES	SCRIPTION	POTEN	TIAL HABITAT GAIN	
Review Date:	10/29/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnii	ng (sq m)	
Passability (%)		CHANNEL DESCRIF	PTION	_ Rearing	(sa m)	
Method			TION		(94)	
Repair Status		Toe Width (m)				
Problem		Span/Toe Ratio				

CULVERT DESCRIPTION

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.38
Rise (m)	0.39
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.24
Apron	No
Fill Depth (m)	0.30
Tidegate	No



Mason Conservation District

Site ID:	127Q0138	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	ATION	POSITIONAL DATA	A	EVALU	ATION LEVEL COMPLETED
Road Name:	5300	WGS 84, decimal de	egrees		Report Logged
County:	Grays Harbor	Latitude:	47.13085	✓	Field Review
1/4 Section:	SW	Longitude:	-123.87607		Threshold Determination
Section:	13	WA state plane sout	th (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,160,224		Downstream Check
Range:	10W	North:	673,541		Physical Survey
WATERBODY		Location / Direction	ns:	SDECIE	S POTENTIAL
Stream:	unnamed	Water crossing is an	pproximately 0.95 miles east	SPECIE	_
Tributary To:	MF Hoquiam 22.0165	of the 5300/US 101			, <u></u>
WRIA:	22.0000				
Fish Use:	No				
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout
		Stream flow is subsu	urface, unable to measure		Coho Brown Trout Steelhead
Name:	ayonier Timberlands Oprtg C				
Type:	Private				
LEVEL A AN	ALYSIS				
SUMMARY INFO	UMMARY INFORMATION PLUNGE POOL DESCRIPTION		SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	10/30/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Lutz	OHW (m)		Length ((m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		CHANNEL DESCRI	IDTION	Rearing	
Method			FIION	rtcaring	(04)
Popair Status		Toe Width (m)			

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.44
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0139

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	13
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
47.13029		
-123.87857		
WA state plane south (NAD 27, feet)		
1,159,594		
673,365		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.80 miles east of the 5300/US 101 junction.

Wetland habitat upstream and downstream of

SPECIES POTENTIAL

PECIES POTENTIAL		
	Sockeye	✓ Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	5.45		
OHW (m)	2.80		
Max Depth (m)	0.40		
CHANNEL DESCRIPTION			
Toe Width (m)	0.80		

0.55

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.44
Rise (m)	0.44
Length (m)	14.17
Slope (%)	2.97
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.08
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Three pilings located at upstream end of culvert discourage debris jams in pipe.



Mason Conservation District

Site ID: 127Q0140 Fish Use: PI:

No

Barrier:

SITE DESCRIPTION

POSITIONAL DATA GENERAL LOCATION EVALUATION LEVEL COMPLETED Report Logged 5300 WGS 84, decimal degrees Road Name: Grays Harbor 47.12917 Field Review County: Latitude: Threshold Determination -123.88012 Longitude: 1/4 Section: SE **Expanded Threshold Determination** Section: 14 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,159,191 10W Physical Survey Range: 672,973 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.70 miles east Sockeye Sea Run Cutthroat Tributary To: MF Hoquiam 22.0165 of the 5300/US 101 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Wetland habitat downstream of culvert with OWNER some wetland plants upstream. OHW = 0.25Steelhead meters. ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFOR	RMATION	PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT GAIN
Review Date:	10/30/2003	Length (m)	Survey Type:
Field Crew:	Glore/Lutz	OHW (m)	Length (m):
Barrier		Max Depth (m)	Spawning (sq m)
Passability (%)		CHANNEL DESCRIPTION	Rearing (sq m)
Method			3(1)
Repair Status		Toe Width (m)	
Problem		Span/Toe Ratio	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No



Mason Conservation District

Site ID:

127Q0141

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use: Barrier:

Yes Yes

PI:

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5300
County:	Grays Harbor
1/4 Section:	SW
Section:	14
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees Latitude:

Location / Directions:

Site Comments:

47.12807 -123.89084 Longitude: WA state plane south (NAD 27, feet)

Slash and debris in stream channel.

1,156,507 672,686 North:

Water crossing is approximately 0.20 miles east of the 5300/US 101 junction.

SI

PECIES POTENTIAL	
Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout

WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.45
OHW (m)	1.15
Max Depth (m)	0.20
CHANNEL DESCRI	DTION

CHANNEL DESCRIPTION

Toe Width (m)	0.90
Span/Toe Ratio	1.01

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.91
Rise (m)	0.91
Length (m)	14.54
Slope (%)	4.19
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.26
Apron	No
Fill Depth (m)	2.00
Tidegate	No



Mason Conservation District

Site ID:

PI:

127Q0142

Fish Use:

No

Barrier:

SITE	DESCRIP	TION
------	---------	------

GENERAL LOCATION		
Road Name:	5300	
County:	Grays Harbor	
1/4 Section:	SW	
Section:	14	
Township:	19N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.12858		
Longitude:	-123.89458		
WA state plane south (NAD 27, feet)			
East:	1,155,586		
North:	672,912		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is located at the 5300/US 101 junction.

Intermittent subsurface flow downstream of site.

Upstream of culvert is ditch drainage.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Staalhaad	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION PLUNGE P

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION

Length (m)	1.30
OHW (m)	0.55
Max Depth (m)	0.10

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.45
Rise (m)	0.39
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.09
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Toe Width (m) Span/Toe Ratio



Mason Conservation District

Site ID:	127Q0143	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5300.5 WGS 84, decimal degrees Road Name: Grays Harbor 47.12970 Field Review County: Latitude: Threshold Determination -123.84628 SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,167,615 09W Physical Survey Range: 672,805 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.10 miles Sockeye Sea Run Cutthroat south of the 5300/5300.5 junction. Tributary To: MF Hoquiam 22.0165 Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho OHW = 0.10 meters. OWNER Steelhead ayonier Timberlands Oprtg (Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 10/30/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m)

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	
WDIC (m)	0.26
Apron	
Fill Depth (m)	
Tidegate	

Culvert Comments:



Mason Conservation District

Site ID:	127Q0144	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	5300.6	WGS 84, decimal de	egrees		Report Logged
County:	Grays Harbor	Latitude:	47.13758	✓	Field Review
1/4 Section:	NW	Longitude:	-123.83845		Threshold Determination
Section:	17	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,169,684		Downstream Check
Range:	09W	North:	675,596		Physical Survey
WATERBODY		Location / Direction	is:	SPECIE	S POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 0.60 miles		Sockeye Sea Run Cutthroat
Tributary To:	unnamed 22.0149	northeast of the 5300	0/5300.6 junction.		Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No	au			Chinook Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout
OWNER		OHW = 0.40 meters.			Steelhead
Name:	ayonier Timberlands Oprtg C				
Type:	Private				
LEVEL A ANA	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	10/30/2003	Length (m)		Survey '	Туре:
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		CHANNEL DESCRIPTION		Rearing	
Method		CHANNEL DESCRI	PIION	, itealing	(34 111)

CULVERT DESCRIPTION

Repair Status

Problem

1.1
RND
CST
0.30
0.30
No
0.00
0.00
No
1.50
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0145

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION Road Name: 5300 County: Grays Harbor 1/4 Section: NW Section: 17 Township: 19N Range: 09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.13248	
Longitude:	-123.83727	
WA state plane sout	h (NAD 27, feet)	
East:	1,169,899	

673,725

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0149
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

North:

Water crossing is approximately 0.60 miles east of the 5300/5302 junction.

Survey stake at culvert: "5300, #4778, 20842".

Wetlands upstream and downstream.

SPECIES POTENTIAL

FECILS FO	ILIVIIAL	
Soci	кеуе	✓ Sea Run Cutthroa
Pink		✓ Resident Trout
Chu	m	Dolly/Bull Trout
Chin	ook	Brook Trout
✓ Coh	0	Brown Trout
Stee	lhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.65
OHW (m)	1.15
OHW (III)	1.10
Max Depth (m)	0.35
CHANNEL DESCRI	PTION
Toe Width (m)	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.78
Rise (m)	0.76
Length (m)	10.82
Slope (%)	-0.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.32
Apron	No
Fill Depth (m)	1.80
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID: 127Q0146 Fish Use:
PI: Barrier:

No

SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5303 WGS 84, decimal degrees Road Name: Grays Harbor 47.12908 Field Review County: Latitude: -123.84817 Threshold Determination SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,167,134 09W Physical Survey Range: 672,600 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.20 miles Sockeye Sea Run Cutthroat south of the 5303/5300 junction. Tributary To: MF Hoquiam 22.0165 Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: No **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho No definitive stream channel or ordinary high OWNER water mark. Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 10/30/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.49
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Toe Width (m)



Private

Mason Conservation District

Site ID: 127Q0147 Fish Use: No PI: Barrier:

SITE DESCRIPTION

POSITIONAL DATA GENERAL LOCATION EVALUATION LEVEL COMPLETED Report Logged 5303 WGS 84, decimal degrees Road Name: Grays Harbor 47.12402 Field Review County: Latitude: Threshold Determination -123.84788 NE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 19 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,167,129 09W Physical Survey Range: 670,754 North: WATERBODY **Location / Directions:** SPECIES POTENTIAL Stream: unnamed Water crossing is approximately 0.55 miles Sockeye Sea Run Cutthroat Tributary To: MF Hoquiam 22.0165 south of the 5303/5300 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho OHW = 0.45 meters. OWNER Steelhead ayonier Timberlands Oprtg (Name:

LEVEL A ANALYSIS

Type:

SUMMARY INFORM	MATION	PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT GAIN	
Review Date:	10/30/2003	Length (m)	Survey Type:	
Field Crew:	Glore/Lutz	OHW (m)	Length (m):	
Barrier		Max Depth (m)	Spawning (sq m)	
Passability (%)		CHANNEL DESCRIPTION	Rearing (sq m)	
Method				
Repair Status		Toe Width (m)		
Problem		Span/Toe Ratio		

CULVERT DESCRIPTION

1.1
RND
CST
0.59
0.59
No
0.00
0.09
No
2.20
No



Mason Conservation District

Site ID:	127Q0148	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

0 L D L 0 0						
GENERAL LOCA	ATION	POSITIONAL DATA	A	EVALU	ATION LEVEL	. COMPLETED
Road Name:	5303.1	WGS 84, decimal degrees			Report Logge	ed
County:	Grays Harbor	Latitude:	47.12269	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.84064		Threshold De	etermination
Section:	19	WA state plane sou	th (NAD 27, feet)		Expanded Th	reshold Determination
Township:	19N	East:	1,168,909		Downstream	Check
Range:	09W	North:	670,191		Physical Surv	vey
WATERBODY		Location / Directio	ns:	SPECIE	ES POTENTIAI	ı
Stream:	unnamed	Water crossing is a	oproximately 0.35 miles east		Sockeye	Sea Run Cutthroat
Tributary To:	MF Hoquiam 22.0165	of the 5303/5303.1 j	unction.		Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No	0:4- 0			Chinook	Brook Trout
FUP Criteria:	Physical	Site Comments:			Coho	Brown Trout
OWNER		No defined stream of	channel.		Steelhead	Blown flout
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFO	ORMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT	T GAIN
Review Date:	10/30/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawni	ng (sq m)	
Passability (%)		CHANNEL DESCR	IPTION	Rearing	ı (sa m)	
Method					· (···/	
Repair Status		Toe Width (m)				

CULVERT DESCRIPTION

Problem

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	0.63	
Rise (m)	0.63	
Length (m)		
Slope (%)		
Bed Material	No	
Outfall Drop (m)	0.15	
WDIC (m)	0.00	
Apron	No	
Fill Depth (m)	2.00	
Tidegate	No	

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0149

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Dood Names	

 Road Name:
 5303.13

 County:
 Grays Harbor

 1/4 Section:
 NW

 Section:
 20

 Township:
 19N

 Range:
 09W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.11875

 Longitude:
 -123.83217

 WA state plane south (NAD 27, feet)

 East:
 1,170,954

 North:
 668,669

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check

Physical Survey

WATERBODY

 Stream:
 unnamed

 Tributary To:
 MF Hoquiam 22.0165

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.25 miles south of the 5303.1/5303.13 junction.

Wetland upstream and downstream.

SPECIES POTENTIAL

FECILS FOTENTIAL	-
Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
✓ Steelhead	

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	3.20	
OHW (m)	2.05	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		
Toe Width (m)	0.65	

0.93

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.61
0.61
9.28
1.29
No
0.02
0.04
No
1.00
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0150

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:		5303

3.13 Grays Harbor County: NW1/4 Section: Section: 20 19N Township: 09W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.11761 -123.83330 Longitude: WA state plane south (NAD 27, feet) 1,170,656 668,264 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream: unnamed Tributary To: MF Hoquiam 22.0165 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

Location / Directions:

Site Comments:

OHW = 0.60 meters.

Water crossing is approximately 0.35 miles south of the 5303.1/5303.13 junction.

SPECIES POTENTIAL

LOIL	.51 OILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.00
OHW (m)	1.25
Max Depth (m)	0.20
CHANNEL DESCRIPTION	

0.55

1.38

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.76
0.75
10.71
3.64
Yes
0.00
0.25
No
2.00
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID: 127Q0151 Fish Use: PI: Barrier:

SITE DESCRIPTION

GENERAL LOCATION 5303.13 Road Name: Grays Harbor County: NW 1/4 Section: 20 Section: 19N Township:

09W

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
47.11695		
-123.83510		
WA state plane south (NAD 27, feet)		
1,170,198		
668,041		

Location / Directions:

Water crossing is approximately 0.45 miles south of the 5303.1/5303.13 junction.

Site Comments:

OHW < 0.6 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
	0.40		

Toe Width (m)	0.40
Span/Toe Ratio	0.80

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

_	
Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.32
Rise (m)	0.34
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.04
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No



Mason Conservation District

Site ID: 127Q0152 Fish Use: PI: Barrier:

No

SITE DESCRIPTION GENERAL LOCATION

GENERAL LOCATION		
Road Name:	5303.1	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	20	
Township:	19N	
Pango:	09/\/	

Range:

WATERBODY

Name:	ayonier Timberlands Oprtg
Туре:	Private

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.12015		
Longitude:	-123.83028		
WA state plane south (NAD 27, feet)			
East:	1,171,447		
North:	669,157		

Location / Directions:

Water crossing is approximately 0.90 miles east of the 5303.1/5303 junction.

Site Comments:

OHW = 0.45 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Toe Width (III)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.03
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No



Mason Conservation District

Site ID: 127Q0153 Fish Use: No PI: Barrier:

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5303.1 WGS 84, decimal degrees Road Name: Grays Harbor 47.12070 Field Review County: Latitude: Threshold Determination -123.81704 NW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 21 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,174,749 09W Physical Survey Range: 669,218 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.6 miles east Sockeye Sea Run Cutthroat Tributary To: MF Hoquiam 22.0165 of the 5303.1/5303 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho No definite stream channel or OHW. OWNER Steelhead Grays Harbor Name: County Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 10/30/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m)

CULVERT DESCRIPTION

Passability (%)

Repair Status

Method

Problem

1.1
RND
CST
0.47
0.47
No
0.45
0.00
No
0.50
No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

CHANNEL DESCRIPTION



Rearing (sq m)

Mason Conservation District

Site ID:

PI:

127Q0154

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5303
County:	Grays Harbor
1/4 Section:	SE
Section:	19
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.11542	
Longitude:	-123.84470	
WA state plane south (NAD 27, feet)		
East: 1,167,786		
North:	667 585	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

of mostly gravel.

Water crossing is approximately 1.10 miles south of the 5303/5300 junction.

High in-stream cover with substrate consisting

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	16.50	
OHW (m)	3.50	
Max Depth (m)	1.70	
CHANNEL DESCRIPTION		
Toe Width (m)	1.35	

1.10

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.49
1.53
18.33
2.24
No
0.55
0.13
No
2.50
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0155

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION Road Name: 5303 County: Grays Harbor 1/4 Section: SE Section: 19 Township: 19N

09W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.11454

Longitude: -123.84472

WA state plane south (NAD 27, feet)

East: 1,167,769

North: 667,264

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 1.20 miles south of the 5300/5303 junction.

Site	Comments:

SPECIES POTENTIAL

DI EGILOT OTENTIAL		
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	0.45	
OHW (m)	0.75	
Max Depth (m) 0.11		
CHANNEL DESCRIPTION		

0.70

1.70

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.19
1.24
12.15
1.00
Yes
0.00
0.12
No
1.00
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0156

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION 5303 Road Name: Grays Harbor County: SE 1/4 Section: 19 Section: 19N Township: 09W

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.11328
Longitude:	-123.84504
WA state plane south (NAD 27, feet)	

ast:	1,167,669
North:	666,808

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments: OHW = 1.20 meters.

Water crossing is approximately 1.30 miles south of the 5300/5303 junction.

PECIE	5 POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	1.00	
Span/Toe Ratio	1.23	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.23
1.29
12.01
1.08
No
0.00
0.19
No
1.00
No

Culvert Comments:

Plunge pool measurements unavailable due to wetland influence downstream.



Mason Conservation District

Site ID:

PI:

127Q0157

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5303
County:	Grays Harbor
1/4 Section:	SE
Section:	19
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.11168	
Longitude:	-123.84586	
WA state plane south (NAD 27, feet)		
East:	1,167,439	
NI = utla :	666 237	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

channel.

Water crossing is approximately 1.40 miles south of the 5300/5303 junction.

Upstream of culvert has no defined stream

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003	
Field Crew:	Glore/Lutz	
Barrier	Yes	
Passability (%)	33	
Method	LA	
Repair Status	UD	
Problem	slope	

PLUNGE POOL DESCRIPTION

Length (m)	1.10	
OHW (m)	0.90	
Max Depth (m)	0.14	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	0.63	
Rise (m)	0.63	
Length (m)	9.53	
Slope (%)	4.90	
Bed Material	No	
Outfall Drop (m)	0.18	
WDIC (m)	0.02	
Apron	No	
Fill Depth (m)	1.00	
Tidegate	No	

Culvert Comments:

Toe Width (m) Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0158

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	5303	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	30	
Township:	19N	
Range:	09W	

POSITIONAL DATA

WGS 84,	decimal	degrees

Latitude:	47.10870	
Longitude:	-123.84918	
WA state plane south (NAD 27, feet)		
East:	1,166,567	
North:	665,183	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 1.65 miles south of the 5300/5303 junction.

Site	Comments:

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.20	
OHW (m)	1.80	
Max Depth (m)	0.40	
CHANNEL DESCRIPTION		

0.75

1.01

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.75
Length (m)	9.51
Slope (%)	2.50
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

PI:

127Q0159

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

5303 Road Name: Grays Harbor County: NW1/4 Section: Section: 30

19N 09W

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

Site Comments:

OHW > 0.60 meters.

south of the 5300/5303 junction.

47.10476 Latitude: -123.85116 Longitude: WA state plane south (NAD 27, feet) 1,166,015 663,769 North:

Water crossing is approximately 1.95 miles

Physical Survey

SPECIES	POTENTIAL		
	Sockeye	√ S	Sea Run Cutthroa
F	Pink	√ R	Resident Trout
	Chum		olly/Bull Trout
	Chinook	B	Brook Trout
V	Coho	B	Brown Trout
✓ 5	Steelhead		

WATERBODY

Township:

Range:

Stream: unnamed Tributary To: MF Hoquiam 22.0165 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/30/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	0.30
OHW (m)	0.70
Max Depth (m)	0.03

CHANNEL DESCRIPTION

Toe Width (m)	0.55
Span/Toe Ratio	0.85

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.47
0.46
12.59
1.90
No
0.00
0.04
No
0.50
No



WRIA 22 Fish Passage Inventory Site ID: 127Q0160 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4014.2 WGS 84, decimal degrees Road Name: Grays Harbor 47.07667 **~** Field Review Latitude: County: -123.88803 Threshold Determination NE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 2 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,156,401 10W Physical Survey Range: 653,926 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.45 miles ✓ Sea Run Cutthroat Sockeye Tributary To: MF Hoquiam 22.0165 north of the 4014.2/4014 junction. Pink Resident Trout WRIA: 22.0170 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Mapped Brown Trout **V** Coho Failing bridge is unsafe for motorized traffic. **OWNER** Steelhead **V** ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0161

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION 5400 Road Name: Grays Harbor County: NW1/4 Section: Section: 26 19N Township: 10W Range:

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

of the 5400/US 101 junction.

47.10983 Latitude: -123.89315 Longitude:

WA state plane south (NAD 27, feet) 1,155,648 666,065 North:

Water crossing is approximately 0.15 miles east

SF

Steelhead

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout

Site Comments:

WATERBODY

Stream: unnamed Tributary To: Hoquiam R 22.0137 WRIA: 22.0187 Fish Use: Yes FUP Criteria: Mapped

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/3/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

CHANNEL DESCRIPTION

Toe Width (m)	2.20
Span/Toe Ratio	1.08

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	SQSH
Material	CST
Span (m)	2.38
Rise (m)	1.74
Length (m)	17.98
Slope (%)	0.40
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.12
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

No plunge pool as stream flows into riffles immediately downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0162

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5400.23
County:	Grays Harbor
1/4 Section:	NE
Section:	24
Township:	19N

10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.12379

 Longitude:
 -123.86728

 WA state plane south (NAD 27, feet)

 East:
 1,162,301

 North:
 670,875

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

due to wetland influence.

Water crossing is approximately 0.20 miles north of the 5400/5400.23 junction.

Pipe is not visible, submerged upstream end

SPECIES POTENTIAL

PECIE	POTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/3/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	2.74
OHW (m)	1.90
Max Depth (m)	0.55
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.75
0.74
No
0.29
0.05
No
4.00
No

Culvert Comments:

Toe Width (m) Span/Toe Ratio

Wetland habitat upstream and downstream makes toe measurement unobtainable. Length and slope shots not possible, unable to locate upstream end of culvert.



Mason Conservation District

Site ID:

PI:

127Q0163

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NW
Section:	36
Township:	19N

10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.08982

 Longitude:
 -123.87343

 WA state plane south (NAD 27, feet)

 East:
 1,160,240

 North:
 658,563

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determinatio
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 1.80 miles north of the 4014/4014.9 junction.

Upstream flow is mostly ditch drainage.

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.65
OHW (m)	1.10
Max Depth (m)	0.25
CHANNEL DESCRIPTION	

0.70

1.10

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.77
Rise (m)	0.77
Length (m)	10.77
Slope (%)	3.34
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

3.5 meter high waterfall 15 meters downstream of cultors



Mason Conservation District

Site ID:

PI:

127Q0164

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION GENERAL LOCATION

WATERBODY

Tributary To:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

FUP Criteria:

OLINEINAL LOCATION	
Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NE
Section:	2
Township:	18N
Range:	10W

unnamed

MF Hoquiam 22.0165

22.0171

Mapped

ayonier Timberlands Oprtg (

Private

POSITIONAL DATA

WGS 84, decimal degrees

47.07949 Latitude: -123.88183 Longitude:

WA state plane south (NAD 27, feet)

1,157,988 654,888 North:

Location / Directions:

Water crossing is approximately 0.95 miles north of the 4014/4014.9 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout

Resident Trout Dolly/Bull Trout

Chum Chinook

Brook Trout Brown Trout

Coho Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	12.00
OHW (m)	7.00
Max Depth (m)	1.50

CHANNEL DESCRIPTION

Toe Width (m)	2.30
Span/Toe Ratio	0.54

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.24
Rise (m)	1.25
Length (m)	28.49
Slope (%)	0.39
Bed Material	No
Outfall Drop (m)	1.60
WDIC (m)	0.12
Apron	No
Fill Depth (m)	5.00
Tidegate	No



Mason Conservation District

Site ID:

PI:

127Q0165

Fish Use: Barrier: Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	SE
Section:	2
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees				
Latitude:	47.07331			
Longitude:	-123.88475			
WA state plane south (NAD 27, feet)				
East:	1,157,166			
North:	652,665			

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.60 miles north of the 4014/4014.9 junction.

Survey stake at culvert: "5303, #4865, 1.718".

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	UD
Problem	velocity

PLUNGE POOL DESCRIPTION

Length (m)	4.00			
OHW (m)	2.00			
	0.40			
Max Depth (m)	0.40			
CHANNEL DESCRIPTION				
Toe Width (m)	2.10			

0.59

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.24
1.20
15.23
0.07
No
0.00
0.11
No
1.00
No

Span/Toe Ratio

Culvert Comments:

Hip chain in stream downstream of pipe.



Mason Conservation District

Site ID: 127Q0166 Fish Use: PI: Barrier:

No

SITE DESCRIPTION

GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	4014	WGS 84, decimal de	grees		Report Logged
County:	Grays Harbor	Latitude:	47.06861	✓	Field Review
1/4 Section:	SE	Longitude:	-123.86855		Threshold Determination
Section:	1	WA state plane south (NAD 27, feet)			Expanded Threshold Determination
Township:	18N	East:	1,161,125		Downstream Check
Range:	10W	North:	650,780		Physical Survey
WATERBODY		Location / Direction	s:	SDECIE	S POTENTIAL
Stream:	Junction Cr	Water crossing is approximately 1.20 miles east of the 4014/4014.9 junction.		3FECIE	Sockeye Sea Run Cutthroat
Tributary To:	MF Hoquiam 22.0165				Pink Resident Trout
WRIA:	22.0168				
Fish Use:	No				
FUP Criteria:	Physical	Site Comments: No stream channel upstream of the culvert. OHW < 0.60 meters.			
OWNER					Coho Brown Trout Steelhead
Name:	ayonier Timberlands Oprtg C				
Type:	Private				
LEVEL A AN	ALYSIS				

SUMMARY INFORMATION		PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT GAIN	
Review Date:	11/4/2003	Length (m)	Survey Type:	
Field Crew:	Glore/Lutz	OHW (m)	Length (m):	
Barrier		Max Depth (m)	Spawning (sq m)	
Passability (%)		CHANNEL DESCRIPTION	Rearing (sg m)	I
Method			3(41)	
Repair Status		Toe Width (m)		
Problem		Span/Toe Ratio		

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.79
Rise (m)	0.77
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.00
Apron	No
Fill Depth (m)	2.00
Tidegate	No



WRIA 22 Fish Passage Inventory Site ID: 127Q0167 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4014 WGS 84, decimal degrees Road Name: Grays Harbor 47.06499 **~** Field Review Latitude: County: Threshold Determination -123.89636 NW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 11 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,154,144 10W Physical Survey 649,760 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.60 miles east ✓ Sea Run Cutthroat Sockeye Tributary To: MF Hoquiam 22.0165 of the 4014/US 101 junction. Pink Resident Trout WRIA: 22.0169 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Mapped Brown Trout **V** Coho Site is a puncheon/cut and fill. OHW = 1.45 **OWNER** Steelhead **V** Fleury and Pinckney Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

127Q0168

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4014
County:	Grays Harbor
1/4 Section:	SW
Section:	3
Township:	18N
Range:	10W

POSITIONAL DATA

Location / Directions:

Site Comments:

WGS 84, decimal degrees Latitude: 47.07325 -123.91784 Longitude:

WA state plane south (NAD 27, feet)

west of the 4014/4014.9 junction.

East: 1,148,926 653,001 North:

Water crossing is approximately 1.60 miles

s

PECIES P			
Soc	keye	~	Sea Run Cutthroat
Pin	k	~	Resident Trout
Chi	um		Dolly/Bull Trout
Chi	nook		Brook Trout
✓ Col	no		Brown Trout
Ste	elhead		

WATERBODY

unnamed Stream: Tributary To: Hoquiam R 22.0137 WRIA: 22.0000 Fish Use: FUP Criteria: Mapped

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION		
Max Depth (m)	0.50	
OHW (m)	2.25	
Length (m)	3.10	

CHANNEL DESCRIPTION

Toe Width (m)	1.40
Span/Toe Ratio	0.44

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.61
0.61
14.10
1.42
No
0.19
0.07
No
2.00
No



Mason Conservation District

Site ID:

PI:

127Q0169

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4014.16
County:	Grays Harbor
1/4 Section:	SW
Section:	15
Township:	18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.03914	
Longitude:	-123.91590	
WA state plane south (NAD 27, feet)		
East:	1,148,872	
North:	640,549	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 1.85 miles south of the 4014.16/4014.1 junction.

Wetland habitat upstream of culvert.

SPECIES POTENTIAL

PECIE	POTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/4/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	3.05	
OHW (m)	1.75	
Max Depth (m)	0.30	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.90
0.90
12.86
3.19
No
0.00
0.10
No
3.00
No

Culvert Comments:

Toe Width (m) Span/Toe Ratio

Unable to obtain toe or OHW width due to subsurface flows and wetland influence.



Mason Conservation District

Site ID: 127Q0170 Fish Use: PI: Barrier:

No

SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5203.33 WGS 84, decimal degrees Road Name: Grays Harbor 47.14120 **~** Field Review Latitude: County: -123.84474 Threshold Determination Longitude: 1/4 Section: SE **Expanded Threshold Determination** Section: WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,168,174 09W Physical Survey 676,980 Range: North: WATERBODY Location / Directions: **SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.10 miles Sockeye Sea Run Cutthroat Tributary To: unnamed 22.0149 southeast of the 5302.3/5302.33 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Perennial vegetation upstream and downstream **OWNER** of pipe. No discernable stream channel. Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 11/5/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m)

CULVERT DESCRIPTION

Repair Status

Problem

OOLVERT DEGO	Kii Hoit
Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.45
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.00
Apron	No
Fill Depth (m)	0.70
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:	127Q0171	Fish Use:
PI:		Barrier:

Rearing (sq m)

No

SITE DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	5203.33	WGS 84, decimal de	egrees		Report Logged
County:	Grays Harbor	Latitude:	47.14104	✓	Field Review
1/4 Section:	SE	Longitude:	-123.84249		Threshold Determination
Section:	7	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,168,731		Downstream Check
Range:	09W	North:	676,898		Physical Survey
WATERBODY		Location / Direction	ns:	SDECIE	S POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 0.30 miles east	JFEGIE	Sockeye Sea Run Cutthroat
Tributary To:	unnamed 22.0149	of the 5203.3/5203.3			Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No				
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout
OWNER			upstream and downstream cernable stream channel.		Coho Brown Trout Steelhead
Name:	Grays Harbor	or carroit marrie ale			Closinoad
Type:	County				
LEVEL A ANA	ALYSIS				
SUMMARY INFOR	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	11/5/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Lutz	OHW (m)		Length ((m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)

CULVERT DESCRIPTION

Passability (%)

Repair Status

Method

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.45
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.04
Apron	No
Fill Depth (m)	0.85
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

CHANNEL DESCRIPTION



Mason Conservation District

Site ID:	127Q0172	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	5203.33	WGS 84, decimal de	egrees		Report Logged
County:	Grays Harbor	Latitude:	47.14273	✓	Field Review
1/4 Section:	SE	Longitude:	-123.84171		Threshold Determination
Section:	7	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,168,951		Downstream Check
Range:	09W	North:	677,505		Physical Survey
WATERBODY		Location / Direction	ns:	SPECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 0.35 miles		Sockeye Sea Run Cutthroat
Tributary To:	unnamed 22.0149	northeast of the 520	3.3/5203.33 junction.		Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No				
FUP Criteria:	Physical	Site Comments:			
OWNER		OHW = 0.50 meters			Coho Brown Trout Steelhead
Name:	Grays Harbor				
Type:	County				
LEVEL A ANA	ALYSIS				
SUMMARY INFOR	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	11/5/2003	Length (m)		Survey	Туре:
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnii	ng (sq m)
Passability (%)		CHANNEL DESCRI	DTION	Rearing	
Method		CHANNEL DESCRI	PIION	- Realing	(34 111)

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.60
Rise (m)	0.60
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.10
Apron	No
Fill Depth (m)	
Tidegate	No

Culvert Comments:

Toe Width (m)



Site ID:	127Q0173	Fish Use:	No
ъ.		- .	

Mason Conservation District	PI:	Barrier:

SITE DESCRIPTION

GENERAL LOCATION 5203.33 Road Name: Grays Harbor County: SE 1/4 Section: 7 Section: 19N Township: 09W Range:

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0149
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER	
Name:	Grays Harbor
Type:	County

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.14314		
Longitude:	-123.84163		
WA state plane south (NAD 27, feet)			
East:	1,168,979		
North: 677,655			
Location / Directions:			

Location / Directions:

Water crossing is approximately 0.40 mile
northeast of the 5203.3/5203.33 junction.

Site Comments:

OHW = 0.29 meters. Some wetland/marsh habitat upstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.59
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.35
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.20
Tidegate	No



Mason Conservation District

Site ID:

PI:

127Q0174

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	5203.33	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	7	
Township:	19N	
Range:	09W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.14493	
Longitude:	-123.84167	
WA state plane south (NAD 27, feet)		
East:	1,168,995	
North:	678,308	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0149
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.55 miles northeast of the 5203.3/5203.33 junction.

Marshy areas upstream and downstream of

pipe obscure ordinary high water mark. OHW>0.60m.

SPECIES POTENTIAL

	Sockeye	✓ Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.50	
OHW (m)	1.90	
Max Depth (m)	0.30	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.59
0.59
12.10
3.00
No
0.00
0.22
No
1.20
No

Culvert Comments:

Span/Toe Ratio

Toe measurement unavailable as flow fans out through marshy area.



Mason Conservation District

Site ID:

PI:

127Q0175

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4014.9
County:	Grays Harbor
1/4 Section:	NW
Section:	11
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06552	
Longitude:	-123.89218	
WA state plane south (NAD 27, feet)		
East:	1,155,193	

649,909

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 100 meters south of the 4014/4019 junction.

Stream flows next to the road for 15m DS

SPECIES POTENTIAL

PECIES POTENTIAL		
	Sockeye	✓ Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

before entering timber.

Site Comments:

North:

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	0.70
OHW (m)	1.13
Max Depth (m)	0.13
CHANNEL DESCRI	PTION
Toe Width (m)	1.11

0.68

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.76
Length (m)	17.87
Slope (%)	1.00
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.16
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0176

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION 4019 Road Name: Grays Harbor County: NW1/4 Section: Section: 11 18N Township: 10W

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

Site Comments:

OHW = 0.60 meters.

south of the 4014/4019 junction.

47.06504 Latitude: -123.89255 Longitude:

WA state plane south (NAD 27, feet) 1,155,093 649,737 North:

Water crossing is approximately 0.15 miles

Coho

Steelhead

ECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout

Brown Trout

MF Hoquiam 22.0165 22.0000

unnamed

WRIA: Fish Use: Yes FUP Criteria: Physical

OWNER

Range:

Stream:

WATERBODY

Tributary To:

ayonier Timberlands Oprtg (Name: Private Type:

LEVEL A ANALYSIS SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRI	PTION
Max Depth (m)	
OHW (m)	
Length (m)	

Toe Width (m)	0.59
0 7 0 "	0.75
Span/Toe Ratio	0.75

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.44
Rise (m)	0.44
Length (m)	15.62
Slope (%)	1.16
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.11
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

No plunge pool riffle at downstream end.



Mason Conservation District

Site ID:

PI:

127Q0177

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL	LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	11
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06258	
Longitude:	-123.89440	
WA state plane south (NAD 27, feet)		
East:	1,154,595	
North:	648,861	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed	
Tributary To:	MF Hoquiam 22.0165	
WRIA:	22.0000	
Fish Use:	Yes	
FUP Criteria:	Physical	

Location / Directions:

Water crossing is approximately 0.30 miles south of the 4014/4019 junction.

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

Site Comments:

MF Hoquiam River is 20 meters downstream of pipe. The stream has intermittent subsurface flow downstream of the culvert, but the OHW > 0.60 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003	
Field Crew:	Glore/Lutz	
Barrier	Yes	
Passability (%)	33	
Method	LA	
Repair Status	UD	
Problem	outfall drop, slope	

PLUNGE POOL DESCRIPTION

Length (m)	1.24	
OHW (m)	0.70	
Max Depth (m)	0.15	
CHANNEL DESCRIPTION		

Toe Width (m)	0.62
Span/Toe Ratio	1.04

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.60
0.60
17.10
11.50
No
0.94
0.02
No
2.00
No



Mason Conservation District

Site ID:

127Q0178

Fish Use:

Yes

PI: Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Range:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

FUP Criteria:

WATERBODY

Tributary To:

4019.81 Road Name: Grays Harbor County:

SW 1/4 Section: Section: 11 18N Township:

10W

unnamed

MF Hoquiam 22.0165

22.0000

Yes

Mapped

ayonier Timberlands Oprtg C

Private

POSITIONAL DATA

WGS 84, decimal degrees

47.05858 Latitude: -123.89163 Longitude: WA state plane south (NAD 27, feet) 1,155,222 647,372

Location / Directions:

North:

Water crossing is approximately 0.20 miles east of the 4014.9/4019.81 junction.

Site Comments:

OHW > 0.60 meters.

EVALUATION LEVEL COMPLETED

Report Logged
 Field Povious

Threshold Determination **Expanded Threshold Determination**

Downstream Check Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout

Chinook

Coho Steelhead

Brown	Trout

Brook Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

CHANNEL DESCRIPTION

Toe Width (m)	1.35
Span/Toe Ratio	0.66

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sg m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.90
Rise (m)	0.84
Length (m)	12.46
Slope (%)	1.70
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.04
Apron	No
Fill Depth (m)	2.20
Tidegate	No

Culvert Comments:

Riffles at downstream end of pipe, Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

127Q0179

Fish Use:

Barrier:

Yes

Yes

PI:

SITE DESCRIPTION

GENERAL LOCATION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SW
Section:	11
Township:	18N
Range:	10W

unnamed

MF Hoquiam 22.0165

22.0000

Mapped

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05797	
Longitude:	-123.89645	
•		

WA state plane south (NAD 27, feet) East: 1,154,011

647,202

Location / Directions:

North:

Water crossing is approximately 0.65 miles south of the 4014/4019 junction.

Site Comments:

Same stream system as site 127Q0178.

EVALUATION LEVEL COMPLETED

L	Report Logged
V	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
Г	Physical Survey

PECIES PUTER	IIIAL
Sockeye	e Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhea	ad

Name:	Scott S Pinckney Trust
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	3.90
OHW (m)	4.60
Max Depth (m)	0.65

CHANNEL DESCRIPTION

Toe Width (m)	1.97
Span/Toe Ratio	0.53

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.05
1.05
18.90
2.75
No
1.15
0.08
No
3.00
No



Mason Conservation District

Site ID:	127Q0180	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

SITE DESCR	IFTION						
GENERAL LOCA	ENERAL LOCATION POSITIONAL DATA			EVALUATION LEVEL COMPLETED			
Road Name:	4019.82	WGS 84, decimal degrees			Report Logged		
County:	Grays Harbor	Latitude:	47.05242	✓	Field Review		
1/4 Section:	SW	Longitude:	-123.89620		Threshold Determination		
Section:	11	WA state plane south (NAD 27, feet)		Expanded Threshold Determination		
Township:	18N	East:	1,153,987		Downstream Check		
Range:	10W	North:	645,179		Physical Survey		
WATERBODY		Location / Directions:		SPECIE	ES POTENTIAL		
Stream:	unnamed	Water crossing is approximately 125 meters			Sockeye Sea Run Cutthroat		
Tributary To:	MF Hoquiam 22.0165	east of the 4019.82/4019 junction.			Pink Resident Trout		
WRIA:	22.0000				Chum Dolly/Bull Trout		
Fish Use:	No	Site Comments:			Chinook Brook Trout		
FUP Criteria:	Physical				Coho Brown Trout		
OWNER		Small stream is very st barrier. Intermittent su	eep, near gradient bsurface flows upstream		Steelhead		
Name:	Scott S Pinckney Trust	of pipe. OHW = 0.50 n	neters.				
Type:	Private						
LEVEL A AN	ALYSIS						
SUMMARY INFO	RMATION	PLUNGE POOL DESC	CRIPTION	POTEN	TIAL HABITAT GAIN		
Review Date:	11/5/2003	Length (m)		Survey	Туре:		
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawnii	ng (sq m)		
Passability (%)		CHANNEL DESCRIPT	TON	Rearing			
Method		_	ION	rtearing	(34 111)		
Danair Ctatus		Toe Width (m)					

CULVERT DESCRIPTION

Problem

1.1
RND
CST
0.60
0.58
No
0.03
No
2.00
No

Culvert Comments:



Mason Conservation District

Site ID: 127Q0181 Fish Use: PI: Barrier:

No

SITE DESCRIPTION

OILE DECOIL							
GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL	COMPLETED	
Road Name:	4019.82	WGS 84, decimal degrees			ed		
County:	Grays Harbor	Latitude:	47.05162	✓	Field Review	1	
1/4 Section:	NW	Longitude:	-123.89161		Threshold D	etermination	
Section:	14	WA state plane south	(NAD 27, feet)		Expanded Threshold Determination		
Township:	18N	East:	1,155,117		Downstream	Check	
Range:	10W	North:	644,838		Physical Sur	vey	
WATERBODY		Location / Directions	s:	SPECIE	S POTENTIA	L	
Stream:	unnamed	Water crossing is app	roximately 0.35 miles east		Sockeye	Sea Run Cutthroat	
Tributary To:	Junction Cr 22.0168	of the 4019.82/4019 junction.			Pink	Resident Trout	
WRIA:	22.0000				Chum	Dolly/Bull Trout	
Fish Use:	No	0.4.			Chinook	Brook Trout	
FUP Criteria:	Physical	Site Comments:		Coho	Brown Trout		
OWNER		Stream channel is poorly defined both upstream and downstream. OHW = 0.30 meters.			Steelhead	Blowii ITout	
Name:	ayonier Timberlands Oprtg C						
Type:	Private						
LEVEL A AN	ALYSIS						
SUMMARY INFO	RMATION	PLUNGE POOL DES	CRIPTION	POTEN	TIAL HABITA	T GAIN	
Review Date:	11/5/2003	Length (m)		Survey	Type:		
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawnii	ng (sq m)		
Passability (%)		, _	TION	•	. ,		
Method		CHANNEL DESCRIP	TION	Rearing	(34 111)		
Popair Status		Toe Width (m)					

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.41
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:	127Q0182	Fish Use:	
PI:		Barrier:	

No

SITE DESCRIPTION

OITE DEGCK	11 11014						
GENERAL LOCA	TION	POSITIONAL DATA	A	EVALU	ATION LEVEL	COMPLETED	
Road Name:	4019.82	WGS 84, decimal degrees		Report Logged		ed	
County:	Grays Harbor	Latitude:	47.05156	✓	Field Review	1	
1/4 Section:	NW	Longitude:	-123.89258		Threshold De	etermination	
Section:	14	WA state plane sou	th (NAD 27, feet)		Expanded Threshold Determination		
Township:	18N	East:	1,154,874		Downstream	Check	
Range:	10W	North:	644,825		Physical Sur	vey	
WATERBODY		Location / Direction	ns:	SPECIE	ES POTENTIA	L	
Stream:	unnamed	Water crossing is an	proximately 0.25 miles east	□ □	Sockeye	Sea Run Cutthroat	
Tributary To:	Junction Cr 220168	of the 4019/4019.82		Pink	Resident Trout		
WRIA:	22.0000				Chum	Dolly/Bull Trout	
Fish Use:	No	Site Comments:			Chinook	Brook Trout	
FUP Criteria:	Physical			Coho	Brown Trout		
OWNER		Intermittent subsurface flows downstream, OHW = 0.35 meters.			Steelhead	Blown Hout	
Name:	ayonier Timberlands Oprtg C						
Type:	Private						
LEVEL A AN	ALYSIS						
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	ITIAL HABITA	T GAIN	
Review Date:	11/5/2003	Length (m)		Survey	Туре:		
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):		
Barrier		Max Depth (m)		Spawni	ng (sq m)		
Passability (%)		CHANNEL DESCR	IPTION	Rearing	• • • •		
Method				rtoaring	, (~4 ''')		
Repair Status		Toe Width (m)					

CULVERT DESCRIPTION

Problem

1.1
RND
CST
0.46
0.45
No
0.25
0.01
No
2.00
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0183

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION			
Road Name:	4019		
County:	Grays Harbor		
1/4 Section:	NW		
Section:	14		
Township:	18N		
Range:	10W		

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05186	
Longitude:	-123.89718	
WA state plane south (NAD 27, feet)		
East:	1,153,735	
North:	644,982	

EVALUATION LEVEL COMPLETED

ninatior

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 1.05 miles south of the 4014/4019 junction.

Intermittent subsurface flows downstream of the

SPECIES POTENTIAL

00 . 0 .		
Sock	eye [Sea Run Cutthroa
Pink	[Resident Trout
Chun	າ [Dolly/Bull Trout
Chino	ook [Brook Trout
✓ Coho	[Brown Trout
✓ Steel	head	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

pipe. OHW not available due to wetland influence.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop; slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCR	PTION
Toe Width (m)	
Toe Width (m) Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.61
Length (m)	20.63
Slope (%)	7.00
Bed Material	No
Outfall Drop (m)	1.35
WDIC (m)	0.00
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

Plunge pool and stream width measurements unavailable due to wetland influence. Hinged addition on downstream end of pipe, outfall is onto debris pile.



Mason Conservation District

Site ID:

PI:

127Q0184

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	14
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.05027	
Longitude:	-123.89746	
WA state plane south (NAD 27, feet)		
East:	1,153,639	
North:	644,408	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	Junction Cr
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0168
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 1.15 miles south of the 4014/4019 junction.

PECIES P	OTENTIAL	
☐ So	ckeye	✓ Sea Run Cutthroa
Pir	nk	Resident Trout
Ch	ium	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

Site Comments:

Nice stream with high quality habitat. Evidence of recent survey work indicates possible plans to replace the culvert.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	9.80			
OHW (m)	5.50			
Max Depth (m)	1.30			
CHANNEL DESCRIPTION				

2.13

0.68

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.45
Rise (m)	1.54
Length (m)	26.71
Slope (%)	2.80
Bed Material	No
Outfall Drop (m)	0.45
WDIC (m)	0.09
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID: **127Q0185**

PI:

Fish Use: No

Barrier:

ITE			

GENERAL LOCA	OCATION POSITIONAL DATA EVALUATION LEVEL COMPLETED		COMPLETED			
Road Name:	4016.1	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.06368	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.95273		Threshold Dete	ermination
Section:	8	WA state plane south	n (NAD 27, feet)		Expanded Thre	eshold Determination
Township:	18N	East:	1,140,089		Downstream C	heck
Range:	10W	North:	649,891		Physical Surve	у
WATERBODY		Location / Direction	s:	SDECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is approximately 0.35 miles north of the 4016/4016.1 junction.			Sockeye	Sea Run Cutthroat
Tributary To:	Hoover Cr 22.0179				Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No					Brook Trout
FUP Criteria:	Physical	Site Comments:			Chinook	
OWNER		Intermittent flows for about 25 meters downstream of pipe. OHW = 0.40 meters.			Coho Steelhead	Brown Trout
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFORMATION		PLUNGE POOL DES	SCRIPTION	POTEN	TIAL HABITAT	GAIN

SUMMARY INFORMATION		PLUNGE POOL DESCRIPTION	POTENTIAL HABITAT GAIN	
Review Date:	11/6/2003	Length (m)	Survey Type:	
Field Crew:	Glore/Lutz	OHW (m)	Length (m):	
Barrier		Max Depth (m)	Spawning (sq m)	
Passability (%)		CHANNEL DESCRIPTION	Rearing (sq m)	
Method			3(4)	
Repair Status		Toe Width (m)		
Problem		Span/Toe Ratio		

CULVERT DESCRIPTION

1.1
RND
CST
0.62
0.62
No
0.22
0.01
No
4.50
No



Mason Conservation District

Site ID:

PI:

127Q0186

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	NW
Section:	14
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.04857	
Longitude:	-123.89845	
WA state plane south (NAD 27, feet)		
East:	1,153,367	
North:	643,797	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

downstream of site.

Water crossing is approximately 1.30 miles south of the 4014/4019 junction.

MF Hoquiam confluence is 25 meters

SPECIES POTENTIAL

PECIES POTENTIAL		
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.82
OHW (m)	1.51
Max Depth (m)	0.26
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.45
Rise (m)	0.45
Length (m)	20.74
Slope (%)	6.50
Bed Material	No
Outfall Drop (m)	0.34
WDIC (m)	0.05
Apron	No
Fill Depth (m)	5.00
Tidegate	No

Toe Width (m)	0.70
Span/Toe Ratio	0.64

Culvert Comments:

Last meter of pipe is dislodged creating grade break in pipe. Upstream end of pipe is round corrugated steel.



Mason Conservation District

Site ID:

PI:

127Q0187

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name: 4019 Grays Harbor County:

SE 1/4 Section: Section: 15 18N Township: 10W

POSITIONAL DATA

WGS 84, decimal degrees

47.04484 Latitude: -123.90209 Longitude: WA state plane south (NAD 27, feet) 1,152,401

642,480

EVALUATION LEVEL COMPLETED

Report Logged Field Review

> Threshold Determination **Expanded Threshold Determination**

Downstream Check Physical Survey

WATERBODY

Range:

OWNER

Name:

Type:

Stream: unnamed Tributary To: MF Hoquiam 22.0165 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

ayonier Timberlands Oprtg (

Private

Location / Directions:

Water crossing is approximately 1.60 miles south of the 4014/4019 junction.

Site Comments:

North:

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout

esident Trout olly/Bull Trout **Brook Trout**

Brown Trout

Chinook Coho

·	
	Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	3.25	
OHW (m)	1.60	
Max Depth (m)	0.45	

CHANNEL DESCRIPTION

Toe Width (m)	1.60	
Span/Toe Ratio	0.55	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1			
RND			
CST			
0.88			
0.91			
13.62			
4.30			
No			
0.24			
0.04			
No			
2.00			
No			



Mason Conservation District

Site ID:	127Q0188	Fish Use:	No
PI:		Barrier:	

SI	TF	DES	CR	IPT	1OI

GENERAL LOCATION Road Name: 4019 County: Grays Harbor 1/4 Section: SE Section: 15 Township: 18N

10W

WATERBODY

Range:

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
47.04295		
-123.90251		
WA state plane south (NAD 27, feet)		
1,152,266		
641,794		

Location / Directions:

Water crossing is approximately 1.75 miles south of the 4014/4019 junction.

Site Comments:

Primarily ditch delivery upstream, marshy wetland downstream of the pipe. OHW < 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

PTION
PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.44
Rise (m)	0.44
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.04
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.75
Tidegate	No



Mason Conservation District

Site ID:

PI:

127Q0189

Fish Use:

No

Barrier:

CIT	re		CC	CR	IDT	101	A
OI I		u	ᆮᇰ	ᅜᅑ	IP I	IUI	N

GENERAL LOCATION		
Road Name:	4019	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	15	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees			
_atitude: 47.04158			
_ongitude: -123.90282			
WA state plane south (NAD 27, feet)			
East: 1,152,167			
North:	641,297		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

subsurface flows.

Water crossing is approximately 1.85 miles south of the 4014/4019 junction.

OHW = 0.30 meters with intermittent

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.44
0.45
No
0.30
0.02
No
1.40
No

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Mason Conservation District

Site ID:

PI:

127Q0190

Fish Use: Barrier: Yes Unk

SITE DESCRIPTION

GENERAL LOCATION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	15
Township:	18N
Range:	10W

unnamed

MF Hoquiam 22.0165

22.0000

Yes

Mapped

ayonier Timberlands Oprtg (

Private

POSITIONAL DATA

WGS 84, decimal degrees	
Latitude:	47.03872
Longitude:	-123.90439
WA state plane south (NAD 27 feet)	

East: 1,151,732

North: 640,274

Location / Directions:

Water crossing is approximately 2.10 miles south of the 4014/4019 junction.

Site Comments:

Large wetlands upstream and downstream. Downstream appears to be tidally influenced. Upstream end of pipe is buried/submerged and is not presently passing water.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PCC
Span (m)	0.59
Rise (m)	0.60
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.23
WDIC (m)	0.00
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

Last 2 sections of pipe are failing, creating a grade break in the pipe. No plunge pool or toe measurements as pipe empties directly into a wetland.



Mason Conservation District

Site ID:

PI:

127Q0191

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4019
County:	Grays Harbor
1/4 Section:	SE
Section:	22
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.03637	
Longitude:	-123.90597	
WA state plane south (NAD 27, feet)		
East:	1,151,300	
North:	639,433	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0166
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 2.25 miles south of the 4014/4019 junction.

Large wetland upstream drains to MF Hoquiam

downstream. Culvert is tidally influenced.

PECIES POTENTIAL			
Sock	кеуе	√ S	Sea Run Cutthroat
Pink		√ R	Resident Trout
Chui	m		Oolly/Bull Trout
Chin	ook	B	Brook Trout
✓ Coh	o	B	Brown Trout
✓ Stee	lhead		

OWNER

Name:	ayonier Timberlands Oprtg	
Type:	Private	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	9.50	
OHW (m)	9.90	
Max Depth (m)	1.37	
CHANNEL DESCRIPTION		

3.50

0.58

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
2.04
2.13
26.63
0.64
No
0.60
0.19
No
2.40
No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID:

127Q0192

Fish Use:

Yes

PI:

Barrier: Unk

C.	ITE	DES	CD	IDT	$1 \cup V$	ı
J		DLS			יוטו	ı

GENERAL LOCATION Road Name: 4019 County: Grays Harbor 1/4 Section: NE Section: 22 Township: 18N Range: 10W

POSITIONAL DATA

Location / Directions:

WGS 84, decimal degrees		
Latitude:	47.03352	
Longitude:	-123.91070	

WA state plane south (NAD 27, feet)

East: 1,150,079

North: 638,448

Water crossing is approximately 2.55 miles south of the 4014/4019 junction.

EVALUATION LEVEL COMPLETED Report Logged

Physical Survey

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check

SPECIES POT

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

WATERBODY

unnamed
MF Hoquiam 22.0165
22.0000
Yes
Mapped

Site Comments: Criteria: Mapped Site Comments: Small marshy wetland upstream and

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/5/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCR	IPTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.2
Shape	RND
Material	CST
Span (m)	0.45
Rise (m)	0.46
Length (m)	24.63
Slope (%)	-1.04
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.45
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Both pipes submerged. Level B not applicable due to lack of downstream control.



Site ID: PI: 127Q0192

Fish Use:

Barrier:

Yes Unk

Mason Conservation District

Mason Conscivation Distri

CULVERT DESCRIPTION

2.2 Sequencer: RND Shape CST Material 0.46 Span (m) Rise (m) 0.44 23.04 Length (m) 0.00 Slope (%) Yes Bed Material 0.00 Outfall Drop (m) WDIC (m) 0.44 Apron No 2.00 Fill Depth (m) No Tidegate

Culvert Comments:

Culvert 2.2 is located on left bank. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0193

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

		NOITA

Road Name:	4016.1
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06440	
Longitude:	-123.95363	
WA state plane south (NAD 27, feet)		
East:	1,139,876	
North:	650,163	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	Hoover Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0179
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

young reprod.

Water crossing is approximately 0.40 miles northeast of the 4016/4016.1 junction.

Wetland upstream of culvert surrounded by

SPECIES POTENTIAL

LCIL	.51 OILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	3.30	
OLIM/ ()	3.10	
OHW (m)	3.10	
Max Depth (m)	0.45	
CHANNEL DESCRIPTION		
Toe Width (m)	1.65	

0.75

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1	
RND	
CST	
1.24	
1.18	
10.71	
3.92	
No	
0.20	
0.04	
No	
1.50	
No	

Culvert Comments:



Mason Conservation District

Site ID: **127Q0194** Fish Use: PI: Barrier:

Mason Conservation District

SITE	DESCRIP	MOIT
91 I L	PEGGINII	11011

GENERAL LOCATION

Road Name:	4016.11
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	18N
Range:	10W

WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

Latitude:	47.06667	
Longitude:	-123.95968	
WA state plane south (NAD 27, feet)		
East:	1,138,406	
North:	651,057	
1		

Location / Directions:

Water crossing is approximately 0.35 miles west of the 4016.11/4016.1 junction.

Site Comments:

No measurable OHW.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.12
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.50
Tidegate	No

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	all.

Mason Conservation District

Site ID:

PI:

127Q0195

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4016.11
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06692	
Longitude:	-123.96086	
WA state plane south (NAD 27, feet)		
East:	1,138,115	
North: 651,162		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

downstream of the pipe.

Water crossing is approximately 0.45 miles west of the 4016.1/4016.11 junction.

OHW = 0.6 meters, possible gradient barrier

SPECIES POTENTIAL

, LCILO I	OILMIIAL	
So	ockeye	✓ Sea Run Cutthroa
Pi	nk	✓ Resident Trout
CI	hum	Dolly/Bull Trout
CI	hinook	Brook Trout
✓ C	oho	Brown Trout
St	eelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	0.50
OHW (m)	0.70
Max Depth (m)	0.04
CHANNEL DESCRIPTION	

0.60

1.30

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	15.90
Slope (%)	9.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	3.00
Tidegate	No

Culvert Comments:

Toe Width (m)



Mason Conservation District

Site ID: 127Q0196		Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 4016.11 WGS 84, decimal degrees Road Name: Grays Harbor 47.06760 **~** Field Review Latitude: County: Threshold Determination -123.96339 NW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 8 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,137,496 10W Physical Survey Range: 651,438 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.55 miles Sockeye Sea Run Cutthroat Tributary To: Hoover Cr 22.0179 west of the 4016.1/4016.11 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho No definitive stream channel upstream. **OWNER** Abundant downed trees and debris downstream Steelhead of culvert. OHW = 0.50 meters. ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 11/6/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio

CULVERT DESCRIPTION

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.49
Rise (m)	0.49
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.75
WDIC (m)	0.01
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Water flows out from beneath the downstream end of the culvert.



Mason Conservation District

Site ID:

PI:

127Q0197

Fish Use:

Yes

Barrier: Unk

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GENERAL LOCATION		
Road Name:	4016.11	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	8	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06682	
Longitude: -123.96404		
WA state plane south (NAD 27, feet)		
East:	1,137,324	
North:	651,160	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	Hoover Cr
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0179
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 0.60 miles west of the 4016.1/4016.11 junction.

Survey stake at culvert: "4016.11, #6128,

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
CHANNEL DESCRI	PTION	
Toe Width (m)	PTION 0.70	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.64
Rise (m)	0.65
Length (m)	23.19
Slope (%)	0.56
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.06
Apron	No
Fill Depth (m)	4.00
Tidegate	No

Culvert Comments:

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0198

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4016.11	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	8	
Township:	18N	

10W

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.06576

 Longitude:
 -123.96411

 WA state plane south (NAD 27, feet)

 East:
 1,137,288

 North:
 650,774

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.90 miles west of the 4016.1/4016.11 junction.

SPECIES POTENTIAL

, LCILO	OTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
F	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg C
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	0.50
OHW (m)	0.60
,	0.07
Max Depth (m)	0.07
CHANNEL DESCRIPTION	
Toe Width (m)	0.70

0.89

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.67
0.62
13.12
6.48
No
0.00
0.05
No
2.00
No

Culvert Comments:

Span/Toe Ratio

Downstream end of culvert obscured by debris pile.



Mason Conservation District

Site ID:

PI:

127Q0199

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4016.1
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	10W

unnamed

Hoover Cr 22.0179

22.0000

Physical

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.06450

 Longitude:
 -123.95364

 WA state plane south (NAD 27, feet)

 East:
 1,139,876

North: Location / Directions:

Water crossing is approximately 0.40 miles northeast of the 4016/4016.1 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream CheckPhysical Survey

SPECIES POTENTIAL

	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
\checkmark	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout

650,202

OWNER

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

Name:	ayonier Timberlands Oprtg
Туре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.40
OHW (m)	0.30
Max Depth (m)	1.05

CHANNEL DESCRIPTION

Toe Width (m)	0.90
Span/Toe Ratio	0.53

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.48
0.48
12.56
7.10
No
0.30
0.03
No
2.00
No



Mason Conservation District

Site ID:

PI:

127Q0200

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION Road Name: 4016.12 County: Grays Harbor 1/4 Section: NE Section: 8 Township: 18N Range: 10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06528	
Longitude:	-123.95083	
WA state plane south (NAD 27, feet)		
East:	1,140,586	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

North:

650,453

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Wetlands upstream and downstream.

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.90
Rise (m)	0.90
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.30
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:

Upstream end of culvert is completely buried and unable to locate. No plunge pool or stream width measurements due to wetland immediately downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0201

EVALUATION LEVEL COMPLETED

Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	4016.12
County:	Grays Harbor
1/4 Section:	NE
Section:	8
Township:	18N
Range:	10W

POSITIONAL DATA

Location / Directions:

Site Comments:

of the 4016.1/4016.12 junction.

WGS 84, decimal degrees

Latitude: 47.06531

Longitude: -123.94910

WA state plane south (NAD 27, feet)

East: 1,141,018

North: 650,446

Water crossing is approximately 0.20 miles east

SPECIES POTENTIAL

Sockeye
Pink
Pink
Resident Trout
Chum
Dolly/Bull Trout
Brook Trout
Chinook
Brown Trout

Coho
Brown Trout

WATERBODY

 Stream:
 unnamed

 Tributary To:
 Hoover Cr 22.0179

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Mapped

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.90	
Span/Toe Ratio	0.87	

POTENTIAL HABITAT GAIN

Steelhead

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.78
0.78
12.42
2.01
No
0.00
0.04
No
1.50
No

Culvert Comments:

Riffles immediately downstream of the pipe make plunge pool measurements unobtainable.



Mason Conservation District

Site ID: 127Q0202 Fish Use: No PI: Barrier:

CIT	ГС	ne	:01	וםי	РΤ	וחו	V
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GENERAL LOCATION

 Road Name:
 4016.12

 County:
 Grays Harbor

 1/4 Section:
 NE

 Section:
 8

 Township:
 18N

 Range:
 10W

WATERBODY

 Stream:
 unnamed

 Tributary To:
 Hoover Cr 22.0179

 WRIA:
 22.0000

 Fish Use:
 No

 FUP Criteria:
 Physical

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.06481

 Longitude:
 -123.94812

 WA state plane south (NAD 27, feet)

 East:
 1,141,254

 North:
 650,253

Location / Directions:

Water crossing is approximately 0.25 miles east of the 4016.1/4016.12 junction.

Site Comments:

No defined stream channel upstream or downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	0.49
Rise (m)	0.49
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.30
Tidegate	No

Culvert Comments:

Downstream end of culvert is buried.



Mason Conservation District

Site ID:

PI:

127Q0203

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

4016.12 Road Name: Grays Harbor County: NE 1/4 Section: Section: 8 18N Township:

10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.06446 -123.94673 Longitude: WA state plane south (NAD 27, feet) 1,141,594 650,109 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

SPECIES POTENTIAL			
Sockeye	✓ Sea Run Cutthroat		
Pink	✓ Resident Trout		
✓ Chum	Dolly/Bull Trout		
Chinook	Brook Trout		
✓ Coho	Brown Trout		
Steelhead			

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	1.00	
Span/Toe Ratio	0.78	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.78
Rise (m)	0.78
Length (m)	12.22
Slope (%)	6.22
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Riffles immediately downstream of culvert, no plunge pool.



Mason Conservation District

Site ID:

PI:

127Q0204

Fish Use:

No

Barrier:

SITE	DESCR	IPTION
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GENERAL LOCATION		
Road Name:	4016.12	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	8	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06417	
Longitude:	-123.94445	
WA state plane south (NAD 27, feet)		
East:	1,142,157	
North:	649,979	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.45 miles east of the 4016.1/4016.12 junction.

OHW = 0.55 meters, flow is intermittently

subsurface downstream of culvert.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)	0.50		

1.05

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.48
Rise (m)	0.46
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.20
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

	C57	
	MAN AND AND AND AND AND AND AND AND AND A	
0.00		
-/		

Mason Conservation District

PI:

127Q0205

Fish Use:

No

Barrier:

SITE DESCRIPTIO

GENERAL LOCATION Road Name: unknown spur County: Grays Harbor 1/4 Section: NW Section: 9 Township: 18N

10W

Range: WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Туре:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06383	
Longitude:	-123.93933	
WA state plane south (NAD 27, feet)		
East:	1,143,426	

649,800

Location / Directions:

North:

Water crossing is on unnamed spur off the 4016.12, approximately 0.70 miles east of the 4016.1/4016.12 junction. Site is 100 meters north of unnamed spur/4016.12 junction.

Site Comments:

Water is present in isolated standing pools downstream of the culvert, no moving water or defined stream channel. OHW < 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.32
Rise (m)	0.32
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.50
WDIC (m)	0.03
Apron	No
Fill Depth (m)	0.75
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0206

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION 4016.12 Road Name: Grays Harbor County: $\mathsf{N}\mathsf{W}$ 1/4 Section: 9 Section: 18N Township: 10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.06610	
Longitude:	-123.94186	
WA state plane south (NAD 27, feet)		
East:	1,142,833	
North:	650,654	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.70 miles northeast of the 4016.1/4016.12 junction

Wetlands upstream and downstream of culvert.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	0.25	
OHW (m)	0.60	
Max Depth (m)	0.20	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.48
Length (m)	9.80
Slope (%)	3.98
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Toe Width (m)	
Span/Toe Ratio	

Culvert Comments:

Wetland/marsh downstream makes toe measurement unobtainable.



Mason Conservation District

Site ID:

PI:

127Q0207

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4016.12	
County:	Grays Harbor	
1/4 Section:	SW	
Section:	4	
Township:	18N	

10W

POSITIONAL DATA

WGS 84,	decimal	degree

Latitude:	47.06824	
Longitude:	-123.93893	
WA state plane south (NAD 27, feet)		
East:	1,143,597	
North:	651,404	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 0.90 miles northeast of the 4016.1/4016.12 junction.

Site Comments:

SPECIES POTENTIAI

FEGILS FOTENTIAL		
	Sockeye	✓ Sea Run Cutthroat
	Pink	Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.20	
_0g ()		
OHW (m)	1.70	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		
Toe Width (m)	0.90	
Toe Width (m)	0.90	

0.70

Survey Type:	
Length (m):	
Spawning (sq m)	

POTENTIAL HABITAT GAIN

Rearing (sq m)

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.63
Rise (m)	0.63
Length (m)	14.55
Slope (%)	2.50
Bed Material	No
Outfall Drop (m)	0.10
WDIC (m)	0.04
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Culvert is rusted out on downstream end, no water is flowing through the pipe.



Mason Conservation District

Site ID: **127Q0208** Fish Use: No PI: Barrier:

Mason	COLISCI	Vation	

SITE D	ESCRIPT	ION
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GENERAL LOCATION Road Name: 4016.1 County: Grays Harbor 1/4 Section: SW Section: 5 Township: 18N Range: 10W

WATERBODY

Stream:	unnamed
Tributary To:	Hoover Cr 22.0179
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal de	egrees	
Latitude:	47.06835	
Longitude:	-123.95657	
WA state plane south (NAD 27, feet)		
East:	1,139,206	

651,635

Location / Directions:

North:

Water crossing is approximately 0.35 miles north of the 4016.1/4016.12 junction.

Site Comments:

No defined stream channel.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.45
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Downstream end of pipe is buried.



Mason Conservation District

Site ID:	127Q0209	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	ATION	POSITIONAL DATA	L.	EVALU	ATION LEVEL COMPLETED	
Road Name:	4016.1	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	Latitude: 47.06952		Field Review	
1/4 Section:	SW	Longitude:	-123.95763		Threshold Determination	
Section:	5	WA state plane sout	h (NAD 27, feet)		Expanded Threshold Determination	
Township:	18N	East:	1,138,961		Downstream Check	
Range:	10W	North:			Physical Survey	
WATERBODY		Location / Direction	ns:	ODEOLE	ES POTENTIAL	
Stream:	unnamed	Water crossing is an	proximately 0.45 miles	SPECIE		
Tributary To:	Hoover Cr 22.0179	north of the 4016.1/4			Sockeye Sea Run Cutthroat	
WRIA:	22.0000				Pink Resident Trout	
Fish Use:	No				Chum Dolly/Bull Trout	
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout	
OWNER		No defined stream channel.			Coho Brown Trout Steelhead	
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A AN	ALYSIS					
SUMMARY INFORMATION		PLUNGE POOL DE	PLUNGE POOL DESCRIPTION		POTENTIAL HABITAT GAIN	
Review Date:	11/6/2003	Length (m)		Survey '	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnir	ng (sq m)	
Passability (%)		. , ,		Rearing		
Method		CHANNEL DESCRIPTION			(34 11)	
Repair Status		Toe Width (m)				

CULVERT DESCRIPTION

Problem

1.1
RND
CST
0.44
0.55
No
0.15
0.00
No
1.50
No

Culvert Comments:

Span/Toe Ratio

Downstream of pipe is choked with slash and debris.



Mason Conservation District

Site ID:

PI:

127Q0210

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4030.001
County:	Grays Harbor
1/4 Section:	NE

5 Section: 17N Township: 10W Range:

WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

OWNER

ayonier Timberlands Oprtg C Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

46.99338 Latitude: -123.95398 Longitude: WA state plane south (NAD 27, feet) 1,138,654 624,291 North:

Location / Directions:

Water crossing is approximately 0.20 miles east of the 4030/4030.001 junction.

Site Comments:

Wetland/marsh influences upstream and downstream makes stream width measurement unobtainable.

EVALUATION LEVEL COMPLETED

	Report Logged	
V	Field Review	

Threshold Determination

Expanded Threshold Determination

Downstream Check Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout

Brown Trout

Coho

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/6/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.55
OHW (m)	0.90
Max Depth (m)	0.25

CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
PVC
0.61
0.61
12.22
1.06
No
0.00
0.11
No
1.50
No

Culvert Comments:

Stream width obscured by wetland influence upstream and downstream of pipe.



Mason Conservation District

Site ID:

PI:

127Q0211

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4030.001
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude: 46.99403		
Longitude:	-123.95202	
WA state plane south (NAD 27, feet)		
East:	1,139,154	
North:	624,507	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 0.30 miles east of the 4030/4030.001 junction.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

Site Comments:

Borderline for fish use, wetland influence upstream and downstream of the pipe. Intermittent subsurface flows downstream.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	1.05
OHW (m)	0.70
Max Depth (m)	0.10
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.61
Rise (m)	0.61
Length (m)	12.98
Slope (%)	2.00
Bed Material	No
Outfall Drop (m)	0.24
WDIC (m)	0.03
Apron	No
Fill Depth (m)	2.00
Tidegate	No

0.10
0.70
1.05

Toe Width (m)	
Span/Toe Ratio	

Culvert Comments:

Toe measurement unavailable due to wetland



Mason Conservation District

Site ID:	127Q0212	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	4030.01
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	18N
Range:	10W

WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.99713	
Longitude:	-123.95637	
WA state plane south (NAD 27, feet)		
East:	1,138,119	
North:	625,682	

Location / Directions:

Water crossing is approximately 50 meters southeast of the 4030/4030.01 junction.

Site Comments:

Possible gradient barrier, OHW<0.60 meters as there is no discernable stream channel. Perennial vegetation growing throughout stream corridor.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.28
0.30
No
0.30
0.00
No
1.50
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0213

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	A-1900	
County:	Grays Harbor	
1/4 Section:	SW	
Section:	31	

18N

10W

WATERBODY

Township:

Range:

Stream:	Little Hoquiam
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0155
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.00133	
Longitude:	-123.97686	
WA state plane south (NAD 27, feet)		
East:	1,133,078	

627,437

Location / Directions:

North:

Water crossing is approximately 0.50 miles southwest of the HQ-1000/A-1900 junction.

Site Comments:

Beaver dam 5 meters upstream of pipe creates medium sized pond, downstream wetland influence with braiding.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.75	
OHW (m)	3.05	
Max Depth (m)	0.30	
CHANNEL DESCRIPTION		

Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.74
Length (m)	8.05
Slope (%)	6.34
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.13
Apron	No
Fill Depth (m)	1.20
Tidegate	No

Culvert Comments:

Toe unavailable due to wetland influence.



Mason Conservation District

Site ID:

PI:

127Q0214

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Road Name:	HQ-2700
County:	Grays Harbor
1/4 Section:	SW
Section:	31
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.00069	
Longitude:	-123.97788	
WA state plane south (NAD 27, feet)		
East:	1,132,815	
North:	627,217	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Little Hoquiam 22.0155
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

pond, OHW > 0.6 meters.

Water crossing is approximately 100 meters southwest of HQ-2700/HQ-2780 junction.

Beaver dam 2 meters upstream of pipe creates

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/10/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.55	
OHW (m)	1.50	
Max Depth (m)	0.15	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.76
Rise (m)	0.76
Length (m)	8.76
Slope (%)	2.85
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.13
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Toe Width (m) Span/Toe Ratio

Toe unavailable due to braiding and wetland influence downstream. Upstream end of pipe is deformed.

	Continue and the contin	10.
A series	Априланал	
	подпадавана	The second
The state of the s		A STATE OF

Mason Conservation District

Site ID:

PI:

127Q0215

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	4011
County:	Grays Harbor
1/4 Section:	SE
Section:	36

18N Township: 11W Range:

WATERBODY

Stream: unnamed Tributary To: Little Hoquiam 22.0155 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.00222 Latitude: -123.98674 Longitude: WA state plane south (NAD 27, feet)

1,130,630 627,870 North:

Location / Directions:

Water crossing is approximately 0.90 miles east of the 4011/SR 109 junction.

Site Comments:

Wetland upstream of culvert. Survey stake at culvert: "4011, #6396, 0.928".

EVALUATION LEVEL COMPLETED

	Report	Logged
--	--------	--------

Field Review Threshold Determination

Expanded Threshold Determination Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	
\neg	D: 1	

Chum

Chinook Coho

7	Sea	Run	Cutthroat
v	Oca	Ituii	Outtinoat

Resident Trout

Dolly/Bull Trout **Brook Trout**

Brown Trout

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/17/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LB
Repair Status	UD
Problem	velocity

PLUNGE POOL DESCRIPTION

Length (m)	0.85
OHW (m)	1.10
Max Depth (m)	0.19

CHANNEL DESCRIPTION

Toe Width (m)	1.10
Span/Toe Ratio	0.57

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

OCEVERY DECORM HOR		
1.1		
RND		
CST		
0.63		
0.64		
14.67		
1.50		
Yes		
0.00		
0.18		
No		
3.00		
No		

Culvert Comments:



Mason Conservation District

Site ID:	127Q0216	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

= = = = =						
GENERAL LOCA	ATION	POSITIONAL DATA	A	EVALU	ATION LEVEL	COMPLETED
Road Name:	4011	WGS 84, decimal degrees			Report Logge	d
County:	Grays Harbor	Latitude:	46.99970	✓	Field Review	
1/4 Section:	NW	Longitude:	-123.98849		Threshold De	termination
Section:	36	WA state plane sou	th (NAD 27, feet)		Expanded Thi	reshold Determination
Township:	18N	East:	1,130,153		Downstream (Check
Range:	11W	North:	626,971		Physical Surv	ey
WATERBODY		Location / Direction	ns:	SPECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is a	pproximately 0.70 miles		Sockeye	Sea Run Cutthroat
Tributary To:	Little Hoquiam 22.0155	northwest of the SR	109/4011 junction.		Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No	Site Comments:			Chinook	Brook Trout
FUP Criteria:	Physical				Coho	Brown Trout
OWNER		OHW = 0.30 meters	S.		Steelhead	Blown float
Name:	ayonier Timberlands Oprtg C			_		
Type:	Private					
LEVEL A AN	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DE	ESCRIPTION	POTEN	TIAL HABITAT	GAIN
Review Date:	11/17/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawni	ng (sq m)	
Passability (%)		CHANNEL DESCR	IPTION	 Rearing	ı (sa m)	
Method				7	. (- ()	
Popair Status		Toe Width (m)				

CULVERT DESCRIPTION

Repair Status

Problem

1.1
RND
CST
0.48
0.48
No
0.00
0.04
No
0.50
No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID: 127Q0217 Fish Use: No PI: Barrier:

SITE DESCRIPTION

SITE DESCR	AIF HON					
GENERAL LOCA	ATION	POSITIONAL DATA		EVALU	ATION LEVEL	COMPLETED
Road Name:	4013.1	WGS 84, decimal deg	grees		Report Logg	ed
County:	Grays Harbor	Latitude:	47.03574	✓	Field Review	1
1/4 Section:	NE	Longitude:	-123.95008		Threshold De	etermination
Section:	20	WA state plane south	(NAD 27, feet)		Expanded Th	nreshold Determination
Township:	18N	East:	1,140,303		Downstream	Check
Range:	10W	North:	639,684		Physical Sur	vey
WATERBODY		Location / Directions	s:	SPECIE	S POTENTIA	L
Stream:	unnamed	Water crossing is app	proximately 0.10 miles		Sockeye	Sea Run Cutthroat
Tributary To:	Bernard Cr 22.0172	south of the 4013/401	3.1 junction.		Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No	Site Comments:			Chinook	Brook Trout
FUP Criteria:	Physical				Coho	Brown Trout
OWNER		OHW = 0.50 meters.			Steelhead	Blown frout
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFO	DRMATION	PLUNGE POOL DES	CRIPTION	POTEN	TIAL HABITA	T GAIN
Review Date:	11/17/2003	Length (m)		Survey	Type:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnii	ng (sq m)	
Passability (%)		CHANNEL DESCRIP	PTION	Rearing		
Method		-	TION		(04 111)	
Repair Status		Toe Width (m)				

CULVERT DESCRIPTION

Problem

1.1
RND
CST
0.54
0.48
No
0.00
0.03
No
1.00
No

Culvert Comments:

Span/Toe Ratio

Spring/seep influence 10 meters upstream of pipe. Stream is tributary to larger system 15 meters downstream of culvert.



Mason Conservation District

Site ID:

PI:

127Q0218

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

5200 Road Name: Grays Harbor County: NE 1/4 Section: Section: 26

19N Township: 10W Range:

WATERBODY

Stream: unnamed Tributary To: Hoquiam R 22.0137 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

OWNER

ayonier Timberlands Oprtg (Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.11006 Latitude: -123.89869 Longitude: WA state plane south (NAD 27, feet) 1,154,273 666,208 North:

Location / Directions:

Water crossing is approximately 50 meters east of the 5200/US 101 junction.

Site Comments:

EVALUATION LEVEL COMPLETED

Report Logged
 Field Pavious

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	3.32	
OHW (m)	2.05	
Max Depth (m)	0.40	
CHANNEL DESCRIPTION		

Toe Width (m)	1.05
Span/Toe Ratio	0.57

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	CST	
Span (m)	0.60	
Rise (m)	0.61	
Length (m)	13.67	
Slope (%)	4.50	
Bed Material	No	
Outfall Drop (m)	0.06	
WDIC (m)	0.07	
Apron	No	
Fill Depth (m)	2.20	
Tidegate	No	

Culvert Comments:



Mason Conservation District

Site ID:	127Q0219	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

GENERAL LOCA	TION	POSITIONAL DATA		EVALU	ATION LEVEL	COMPLETED
Road Name:	5226	WGS 84, decimal degrees			Report Logge	ed
County:	Grays Harbor	Latitude:	47.11677	✓	Field Review	
1/4 Section:	SW	Longitude:	-123.89927		Threshold De	termination
Section:	23	WA state plane south (NAD 27, feet)		Expanded Th	reshold Determination
Township:	19N	East:	1,154,233		Downstream	Check
Range:	10W	North:	668,660		Physical Surv	rey
WATERBODY		Location / Directions:		SDECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is appro	oximately 0.25 miles	3FEGIE	Sockeye	Sea Run Cutthroat
Tributary To:	Hoquiam R 22.0137	north of the 5200/5226			Pink	
WRIA:	22.0000				Chum	Resident Trout
Fish Use:	No					Dolly/Bull Trout
FUP Criteria:	Physical	Site Comments:			Chinook	Brook Trout
OWNER		OHW = 0.50 meters.			Coho Steelhead	Brown Trout
Name:	ayonier Timberlands Oprtg C					
Type:	Private					
LEVEL A ANA	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DESC	RIPTION	POTEN	TIAL HABITAT	GAIN
Review Date:	11/24/2003	Length (m)		Survey	Туре:	
Field Crew:	Glore/Lutz	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawnin	ng (sq m)	
Passability (%)] , _	1011	_		
Method		CHANNEL DESCRIPT	ION	Rearing _	(Sq III)	
Popair Status		Toe Width (m)				

CULVERT DESCRIPTION

Repair Status

Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.23
WDIC (m)	0.06
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0220

Fish Use: Barrier: Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	5226	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	23	
Township:	19N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.11778	
Longitude:	-123.89986	
WA state plane sout	h (NAD 27, feet)	
East:	1,154,102	

669,034

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

North:

Water crossing is approximately 0.35 miles north of the 5200/5226 junction.

SPECIES POTENTIAI

PECIE	3 FUI EN HAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
✓	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Wetland/pond upstream of pipe.

Length (m)	8.30	
Longur (III)	0.00	
OHW (m)	4.00	
Max Depth (m)	0.85	
CHANNEL DESCRIPTION		

1.00

1.17

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.17
Rise (m)	1.22
Length (m)	12.91
Slope (%)	7.05
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.40
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Toe Width (m) Span/Toe Ratio

Culvert Comments:

WF Hoquiam 15 meters downstream of pipe. Wooden structure around the upstream end of



Mason Conservation District

Site ID:

PI:

127Q0221

Fish Use:

Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	5200	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	22	
Township:	19N	

10W

POSITIONAL DATA

WGS 84,	decimal	de	gree

Latitude:	47.11793	
Longitude:	-123.90861	
WA state plane south (NAD 27, feet)		
East:	1,151,929	
North:	669,182	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0186
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 0.90 miles west of the 5200/US 101 junction.

Site	Comments:

SPECIES POTENTIAI

SPECIE	3 FUTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/24/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.40	
OHW (m)	1.80	
Max Depth (m)	0.50	
CHANNEL DESCRIPTION		

0.88

1.45

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.28
1.43
24.63
1.60
No
0.34
0.09
No
4.50
No

Span/Toe Ratio

Culvert Comments:

Toe Width (m)

Braiding immediately downstream of pipe. Cables spanning interior of pipe at 0.6 meter



Mason Conservation District

Site ID: 127Q0222 Fish Use: PI:

No

Barrier:

GENERAL LOCATION		
Road Name:	5200	
County:	Grays Harbor	
1/4 Section:	NW	
Section:	22	
Township:	19N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.11885	
Longitude:	-123.91252	
WA state plane south (NAD 27, feet)		
East:	1,150,971	
North:	669,557	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0186
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

0.40 meters.

Water crossing is approximately 1.10 miles west of the 5200/US 101 junction.

Some ditch delivery upstream of site. OHW =

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

SUMMARY INFORMATION

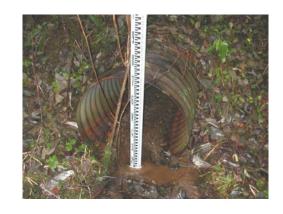
Review Date:	11/24/2003
Field Crew:	Glore/Lutz
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

CULVERT DESCRIPTION

1.1	
RND	
CST	
0.61	
0.61	
No	
0.08	
No	
1.50	
No	

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:	127Q0223	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5200 WGS 84, decimal degrees Road Name: Grays Harbor 47.11922 Field Review County: Latitude: Threshold Determination -123.91439 NWLongitude: 1/4 Section: **Expanded Threshold Determination** Section: 22 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,150,510 10W Physical Survey Range: 669,714 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.20 miles Sockeye Sea Run Cutthroat Tributary To: unnamed 22.0186 west of the 5200/US 101 junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho OHW = 0.45 meters. OWNER Steelhead ayonier Timberlands Oprtg (Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: 11/24/2003 Length (m) Survey Type: Glore/Lutz Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m)

CULVERT DESCRIPTION

Repair Status

Problem

OULVERT BEOOKII TION	
Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.69
Rise (m)	0.65
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.20
Tidegate	No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0224

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	Private Rd	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	6	
Township:	19N	
Range:	09W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.15673	
Longitude:	-123.84719	
WA state plane south (NAD 27, feet)		
East:	1,167,806	
North:	682,665	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

meters.

Water crossing is approximately 0.25 miles north of the upper E Hoquiam Bridge (on Youmans Rd), site is 100 meters southeast of yellow gate on private road.

Beaver activity present at site. Wetlands

upstream and downstream. OHW > 0.60

SPECIES POTENTIAL

LOILO I OTLIVIIA	\ _
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name:	Ken Lentz
Гуре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/16/2003
Field Crew:	Glore/Lutz
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	7.40	
OHW (m)	3.80	
Max Depth (m)	0.56	
CHANNEL DESCRIPTION		
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.70
Rise (m)	0.76
Length (m)	9.27
Slope (%)	-0.50
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.31
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

-123.89971

127Q0225

EVALUATION LEVEL COMPLETED Report Logged Field Review

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	5216
County:	Grays Harbor
1/4 Section:	NW
Section:	14
Township:	19N
Range:	10W

POSITIONAL DATA

Location / Directions:

Site Comments:

Longitude:

WGS 84, decimal de	egrees
Latitude:	47.13440

WA state plane south (NAD 27, feet)

west of the 5216/US 101 junction.

	,,
East:	1,154,400
North:	675,086

Water crossing is approximately 100 meters

S

PECIE	S POTENTIAL	
	Sockeye	✓ Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	ainier Timber Company, LL
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/11/2003
Field Crew:	Glore/Lutz
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	9.15
OHW (m)	4.85
Max Depth (m)	0.85
CHANNEL DESCRIPTION	

Toe Width (m)	3.25
Span/Toe Ratio	0.49

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

	Г
Sequencer:	1.1
Shape	SQSH
Material	CST
Span (m)	1.59
Rise (m)	1.28
Length (m)	10.28
Slope (%)	0.60
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.56
Apron	No
Fill Depth (m)	0.60
Tidegate	No

Culvert Comments:

Wooden 2x4 frame constructed around upstream end of pipe.



Mason Conservation District

Site ID:

PI:

47.13453

127Q0226

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	5216
County:	Grays Harbor
1/4 Section:	NE
Section:	15
Township:	19N

10W

POSITIONAL DATA

WGS 84,	decimal degrees	3
Latituda:		

Longitude:	-123.90097
WA state plane south (NAD 27, feet)	
East:	1,154,090
North:	675,148

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

stream at 127Q0225.

Water crossing is approximately 200 meters west of the 5216/US 101 junction.

Small stream crosses beneath road, feeds into

FLCIL	SPOILNIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ainier Timber Company, LL
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/11/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.65
OHW (m)	0.60
Max Depth (m)	0.40
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.45
0.46
12.25
2.10
No
0.02
0.09
No
0.80
No

Toe Width (m)	0.80
Span/Toe Ratio	0.56

Culvert Comments:

Cascade 3 meters downstream of the pipe measuring 0.8 meters high.



Mason Conservation District

Site ID:

PI:

127Q0227

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5216 spur
County:	Grays Harbor
1/4 Section:	NE
Section:	15
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.13450	
Longitude:	-123.90165	
WA state plane south (NAD 27, feet)		
East:	1,153,919	
North:	675,144	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	WF Hoquiam 22.0137
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is located on first northbound spur off the 5216. West of US 101, approximately 40 meters from junction.

SPECIES POTENTIAL

	Sockeye	✓ Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
\checkmark	Coho	Brown Trout
\checkmark	Steelhead	

OWNER

Name:	ainier Timber Company, LL
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/11/2003
Field Crew:	Glore/Lutz
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	1.25	
Span/Toe Ratio	0.62	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.78
0.73
10.71
3.83
No
0.00
0.12
No
1.20
No

Culvert Comments:

Lots of garbage is channel. No plunge pool as stream flows directly into riffles downstream of the pipe.



Mason Conservation District

Site ID:

PI:

47.06963

127Q0228

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	2
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal de	gree
Latitude:	

Longitude:	-123.89253	
WA state plane south (NAD 27, feet)		
East:	1,155,171	
North:	651 410	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is located on private road, approximately 0.35 miles north of the junction with 4014.

Site Comments:

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

OWNER

Name:	Saw Fishers LLC
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/13/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	3.66
OHW (m)	2.25
Max Depth (m)	0.74
CHANNEL DESCRIPTION	

1.13

0.42

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.44
Length (m)	7.30
Slope (%)	3.30
Bed Material	No
Outfall Drop (m)	0.56
WDIC (m)	0.06
Apron	No
Fill Depth (m)	0.90
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Downstream end of road is eroding.



Mason Conservation District

Site ID:

PI:

127Q0229

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	Private Rd
County:	Grays Harbor
1/4 Section:	SW
Section:	2
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.06692	
Longitude:	-123.89526	
WA state plane south (NAD 27, feet)		
East:	1,154,448	
North:	650,452	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	MF Hoquiam 22.0165
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is located on private road, approximately 0.15 miles north of the junction with 4014.

Substrate contains high amounts of fines.

SPECIES POTENTIAL

LOIL	OICITIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Saw Fishers
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/13/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	4.53	
OHW (m)	2.60	
Max Depth (m)	0.87	
CHANNEL DESCRIPTION		

1.21

0.49

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.59
Rise (m)	0.64
Length (m)	7.50
Slope (%)	1.51
Bed Material	No
Outfall Drop (m)	0.56
WDIC (m)	0.06
Apron	No
Fill Depth (m)	1.70
Tidegate	No

Culvert Comments:

Toe Width (m)

Span/Toe Ratio

Upstream end of culvert is deformed horizontally. Bank erosion present downstream of site.



Mason Conservation District

Site ID: 127Q0230 Fish Use: PI:

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4240 spur
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	19N
Range:	09W

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0148
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

POSITIONAL DATA

imal degree:

Latitude:	47.15444
Longitude:	-123.82075
WA state plane sout	h (NAD 27, feet)
East:	1,174,342
North:	681,552

Location / Directions:

Water crossing is located on spur road, approximately 0.40 miles east of the junction with 4240.

Site Comments:

Ephemeral wetland habitat upstream and downstream, completely dry at time of sample. OHW < 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

Barrier:

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.92
Length (m)	
Slope (%)	
Bed Material	
Outfall Drop (m)	0.00
WDIC (m)	0.22
Apron	
Fill Depth (m)	1.00
Tidegate	

Culvert Comments:

No plunge pool or stream width measurements due to wetland influence.



Mason Conservation District

Site ID:

PI:

127Q0231

Fish Use:

No

Barrier:

SITE	DESCR	IPTION
------	--------------	--------

GENERAL LOCATION 4240 spur Road Name: Grays Harbor County: ΝE 1/4 Section: Section: 8 19N Township: 09W Range:

WGS 84, decimal degrees Latitude: 47.15211 -123.81972 Longitude: WA state plane south (NAD 27, feet) 1,174,564 680,693 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0148
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

POSITIONAL DATA

Water crossing is located on spur road, approximately 0.65 mile east of the junction with 4240.

Poorly defined stream channel. OHW < 0.60

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
CHANNEL DESCR	IPTION	
Toe Width (m)	IPTION	
	IPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.92
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0232

Fish Use:

Barrier:

Yes Unk

SITE DESCRIPTION

GENERAL LOCATION

4241 Road Name: Grays Harbor County: NW1/4 Section: Section: 5 19N Township: 09W Range:

WATERBODY

Stream: unnamed Tributary To: EF Hoquiam 22.0138 WRIA: 22.0000 Fish Use: FUP Criteria: Physical

OWNER

ayonier Timberlands Oprtg C Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.16189 Latitude: -123.83175 Longitude: WA state plane south (NAD 27, feet) 1,171,723 684,385 North:

Location / Directions:

Water crossing is approximately 0.45 miles northwest of the 4241/4240 junction.

Site Comments:

Survey stake at site "4241/4748/0/395". OHW > 0.60 meters. Wetland habitat upstream and downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

FLUIL	SPOILNIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
CHANNEL DESCR	RIPTION	
Toe Width (m)	RIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.92
Length (m)	10.96
Slope (%)	0.39
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Plunge pool and stream width measurements unavailable due to wetland influence. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0233

Fish Use:

Unk

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION			
Road Name:	4240 spur		
County:	Grays Harbor		
1/4 Section:	NE		
Section:	5		
Township:	19N		
Range:	09W		

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.16368	
Longitude:	-123.82409	
WA state plane south (NAD 27, feet)		
East:	1,173,654	

684,957

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed		
Tributary To:	EF Hoquiam 22.0138		
WRIA:	22.0000		
Fish Use:	Unk		
FUP Criteria:	Physical		

Location / Directions:

Site Comments:

0.60 meters.

North:

Water crossing is located on spur road, approximately 0.10 miles north of the junction with 4240.

influence. No defined stream channel. OHW =

Highly modified/excavated with wetland

SPECIES POTENTIAL

SPECIES FOTENTIAL		
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Fruit Growers Supply Co	
Type:	Private	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004	
Field Crew:	Glore/Blatt	
Barrier	Yes	
Passability (%)	67	
Method	LA	
Repair Status	UD	
Problem	slope	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1	
Shape	RND	
Material	PVC	
Span (m)	0.62	
Rise (m)	0.62	
Length (m)	7.50	
Slope (%)	1.11	
Bed Material	No	
Outfall Drop (m)	0.00	
WDIC (m)	0.18	
Apron	No	
Fill Depth (m)	1.00	
Tidegate	No	

Culvert Comments:

Stream width and plunge pool measurements unavailable due to wetland influence.



Mason Conservation District

Site ID:

PI:

127Q0234

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Range:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

WATERBODY

Tributary To:

FUP Criteria:

Road Name:	4240 spur	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	5	
Township:	19N	
Range:	09W	

unnamed

EF Hoquiam 22.0138

22.0000

Yes

Physical

Fruit Growers Supply Co

Private

POSITIONAL DATA

WGS 84,	decimal	degrees
1		

Latitude:	47.16641
Longitude:	-123.82153
	(1115 07 (1)

WA state plane south (NAD 27, feet) 1,174,334 685,924 North:

Location / Directions:

Water crossing is located on spur road, approximately 0.25 miles northeast of the junction with 4240.

Site Comments:

Wetland habitat upstream and downstream. OHW = 0.60 meters.

EVALUATION LEVEL COMPLETED

Threshold Determination

	Report Logged
✓	Field Review

Expanded Threshold Determination

Downstream Check Physical Survey

SPECIES POTENTIAL

	0.0.2	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	3.35
OHW (m)	1.89
Max Depth (m)	0.53

CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.29
Rise (m)	0.31
Length (m)	5.74
Slope (%)	0.93
Bed Material	No
Outfall Drop (m)	0.02
WDIC (m)	0.04
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Plunge pool appears to be excavated. Level B not applicable due to lack of downstream



Mason Conservation District

Site ID:

PI:

127Q0235

Fish Use:

Unk

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION Road Name: 4240 spur County: Grays Harbor 1/4 Section: NE Section: 5 Township: 19N Range: 09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.16608	
Longitude:	-123.82547	
WA state plane south (NAD 27, feet)		
East:	1,173,348	
North:	685,846	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Unk
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is located on spur road, approximately 0.25 miles northwest of the junction with 4240.

Wetland habitat upstream and downstream.

Sculpin observed near downstream end of pipe.

SPECIES POTENTIAL

PECIE	3 PUTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	PVC
Span (m)	0.62
Rise (m)	0.62
Length (m)	7.51
Slope (%)	0.22
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.29
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Stream width and plunge pool measurements unavailable due to wetland influence. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:	127Q0236	Fish Use:	No
PI:		Barrier:	

SITE DESCRIPTION

= = = = =					
GENERAL LOCA	ATION	POSITIONAL DATA	1	EVALU	ATION LEVEL COMPLETED
Road Name:	4240	WGS 84, decimal degrees			Report Logged
County:	Grays Harbor	Latitude:	47.16556	✓	Field Review
1/4 Section:	NW	Longitude:	-123.81798		Threshold Determination
Section:	4	WA state plane sout	th (NAD 27, feet)		Expanded Threshold Determination
Township:	19N	East:	1,175,201		Downstream Check
Range:	09W	North:	685,576		Physical Survey
WATERBODY		Location / Direction	ns:	SDECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 1.55 miles		Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam 22.0138	north of the 4240/Yo			Pink Resident Trout
WRIA:	22.0000				Chum Dolly/Bull Trout
Fish Use:	No	Site Comments: Small wetland upstream, perennial vegetation growing throughout downstream channel.			Chinook Brook Trout
FUP Criteria:	Physical				Coho Brown Trout
OWNER				Steelhead	
Name:	ayonier Timberlands Oprtg C	Survey stake at site < 0.6 meters.	"4240, 4746, 1.395". OHW		
Type:	Private	C 0.0 meters.			
LEVEL A AN	ALYSIS				
SUMMARY INFO	RMATION	PLUNGE POOL DE	SCRIPTION	POTEN	ITIAL HABITAT GAIN
Review Date:	4/20/2004	Length (m)		Survey	Type:
Field Crew:	Glore/Blatt	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawni	ng (sq m)
Passability (%)		CHANNEL DESCRI	PTION	Rearing	a (sa m)
Method					, (- J ···/
Repair Status		Toe Width (m)			

CULVERT DESCRIPTION

Problem

1.1
RND
CST
0.42
0.42
No
0.00
0.05
No
1.50
No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID: **127Q0237**

PI:

237 Fis

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION Road Name: 4240 County: Grays Harbor 1/4 Section: NW Section: 4 Township: 19N Range: 09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.16638	
Longitude:	-123.81786	
WA state plane south (NAD 27, feet)		
East:	1,175,244	
North:	685,875	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

downstream of site.

Water crossing is approximately 1.65 miles north of the 4240/Youmans Rd junction.

Some wetland influence and braiding

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg (
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Toe Width (m) Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.62
0.59
9.15
1.02
Yes
0.00
0.45
No
1.00
No

Culvert Comments:

Wetland influence obscures stream width and plunge pool measurements. Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0238

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4240	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	32	
Township:	20N	

09W

Range: WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

Latitude:	47.16886		
Longitude:	-123.81988		
WA state plane south (NAD 27, feet)			
East:	1,174,780		
North:	686,800		

Location / Directions:

Water crossing is approximately 1.80 miles north of the 4240/Youmans Rd junction.

Site Comments:

Stream flows in roadside ditch for 15 meters before passing through culvert. OHW = 0.79 meters.

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

SPECIES POTENTIAL

LCIL	3 I OILMIIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.08
OHW (m)	1.55
Max Depth (m)	0.29

CHANNEL DESCRIPTION

Toe Width (m)	0.64
Span/Toe Ratio	0.97

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.62
Rise (m)	0.62
Length (m)	12.29
Slope (%)	1.84
Bed Material	No
Outfall Drop (m)	0.02
WDIC (m)	0.04
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:



Site ID:

127Q0239

Fish Use: Barrier:

Yes Unk

PI: **Mason Conservation District**

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4240 spur
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	19N
Range:	09W

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

POSITIONAL DATA

WGS 84,	decimal	degree
---------	---------	--------

Latitude:	47.15898	
Longitude:	-123.82219	
WA state plane south (NAD 27, feet)		
East:	1,174,055	
North:	683,221	

Location / Directions:

Water crossing is located on spur road, approximately 150 meters east of the junction with 4240.

Site Comments:

Wetlands upstream and downstream. OHW > 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determinatio
	Downstream Check
	Physical Survey

PECIES POTENTIAL		
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/20/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
SQSH
CST
2.10
1.47
9.01
0.55
Yes
0.00
0.38
No
1.00
No

Culvert Comments:

Site appears to be recent replacement. Toe and plunge pool unavailable due to wetland influence. Barrier status is unknown as toe is unavailable, although pipe appears to function adequately.



Mason Conservation District

Site ID:	127Q0240	Fish Use
PI:		Barrier:

SITE DESCRIPTION

GENERAL LOCATION Road Name: 3210 County: Grays Harbor 1/4 Section: SE Section: 25 Township: 20N Range: 10W

WATERBODY

Stream:	unnamed
Tributary To:	Big Cr 22.0042
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	itude: 47.18687	
Longitude:	-123.86089	
WA state plane south (NAD 27, feet)		
East:	1,164,870	
North:	693,792	

Location / Directions:

Site Comments:

Survey stake at site "3210, #3386, 0.236". Perennial growth throughout channel. OHW < 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.36
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0241

Fish Use:

Barrier:

Yes Unk

SITE DESCRIPTION

GENERAL LOCATION 3210 Road Name: Grays Harbor County: SW 1/4 Section: 30 Section: 20N Township:

10W

Mapped

POSITIONAL DATA

WGS 84, decimal degrees

Latitude:	47.18653	
Longitude:	-123.85565	
WA state plane south (NAD 27, feet)		
East:	1,166,165	
North:	693,615	

Physical Survey SPECIES POTENTIAL

	Location / Directions:
unnamed	Water crossing is approximately 0.55 miles east of the 3210/3200 junction.
unnamed 22.0150	
22.0000	
Yes	
Managari	Site Comments:

OHW > 0.60 meters.

Sockeye	Sea Run Cutth
Pink	✓ Resident Trout

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Expanded Threshold Determination

Field Review

	Chum	Do
	Chinook	Bro
✓	Coho	Bro
	Steelhead	

Dolly/Bull Trout
Brook Trout
Brown Trout

Sea Run Cutthroat

OWNER

Range: WATERBODY

Stream:

WRIA:

Fish Use:

Tributary To:

FUP Criteria:

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	Unk
Passability (%)	
Method	OT
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Survey stake at site "3210, #3843, 0.507".

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.09
Rise (m)	1.09
Length (m)	12.88
Slope (%)	0.00
Bed Material	
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Need stream toe width to complete Level A



Mason Conservation District

Site ID:

PI:

127Q0242

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

No

Barrier:

SITE DE	ESCRIPTIO	N
GENERAL	L LOCATION	

3210 Road Name: County: Grays Harbor SW 1/4 Section: 30 Section: 20N Township: 10W

POSITIONAL DATA

Location / Directions:

of the 3200/3210 junction.

Site Comments:

WGS 84, decimal degrees		
Latitude:	47.18680	
Longitude:	-123.84897	

WA state plane south (NAD 27 feet)

WA State plane South	I (NAD 21, leet)
East:	1,167,829
North:	693,642

Water crossing is approximately 0.90 miles east

Stream flows subsurface 3 meters downstream

S

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

Stream:	unnamed
Tributary To:	unnamed 22.0150
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

of culvert. OHW = 0.35 meters.

Length (m)	3.12
OHW (m)	0.20
Max Depth (m)	0.23

CHANNEL DESCRIPTION

Toe Width (m)	0.35
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.67
Rise (m)	0.58
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.45
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID: 127Q0243 Fish Use: No PI: Barrier:

SITE DESCRIPTION

GENERAL LOC	ATION	POSITIONAL DATA		EVALU	ATION LEVEL COMPLETED
Road Name:	3210.9	WGS 84, decimal degrees			Report Logged
County:	Grays Harbor	Latitude:	47.17634	✓	Field Review
1/4 Section:	NE	Longitude:	-123.82385		Threshold Determination
Section:	32	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination
Township:	20N	East:	1,173,908		Downstream Check
Range:	09W	North:	689,568		Physical Survey
WATERBODY		Location / Direction	s:	SPECIE	ES POTENTIAL
Stream:	unnamed	Water crossing is ap	proximately 0.95 miles		Sockeye Sea Run Cutthroat
Tributary To:	EF Hoquiam 22.0138	south of the 3210/32			Pink Resident Trout
WRIA:	22.0000				
Fish Use:	No				
FUP Criteria:	Physical	Site Comments:			
OWNER		Survey stake at site " OHW < 0.60 meters.	'3201.9, #3892, 0.109"		Coho Brown Trout Steelhead
Name:	ayonier Timberlands Oprtg C				
Type:	Private				
LEVEL A A	NALYSIS				
SUMMARY INF	ORMATION	PLUNGE POOL DES	SCRIPTION	POTEN	TIAL HABITAT GAIN
Review Date:	4/26/2004	Length (m)		Survey	Туре:
Field Crew:	Glore/Blatt/Schuetzler	OHW (m)		Length	(m):
Barrier		Max Depth (m)		Spawnir	ng (sq m)
Passability (%)		. , ,	RTION	Rearing	
Method		CHANNEL DESCRI	PHON	Realing	(54 111)
Repair Status		Toe Width (m)			
Drahlam		Span/Toe Ratio			

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.34
Rise (m)	0.34
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.00
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0244

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged Field Review

Fish Use: Barrier:

Yes

No

SITE DESCRIPTION

WATERBODY

Tributary To:

FUP Criteria:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

GENERAL LOCATION		
Road Name:	3210.8	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	32	
Township:	20N	
Range:	09W	

unnamed

EF Hoquiam 22.0138

22.0000

Yes

Physical

ayonier Timberlands Oprtg (

Private

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.17835	
Longitude:	-123.82690	

WA state plane south (NAD 27, feet)

1,173,183 690,331 North:

Water crossing is approximately 0.75 miles south of the 3210/3210.8 junction.

Site Comments:

Location / Directions:

Survey stake at site "3210.8, #3890, 0.838". OHW = 1.05 meters.

SPECIES POTENTIAL

Sockeye	✓ Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout

Brown Trout

Coho Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	4/26/2004
Field Crew:	Glore/Blatt/Schuetzler
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.54
OHW (m)	1.07
Max Depth (m)	0.22
CHANNEL DECORIDEION	

CHANNEL DESCRIPTION

Toe Width (m)	0.58
Span/Toe Ratio	1.05

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.30
Slope (%)	-0.32
Bed Material	Yes
Outfall Drop (m)	0.17
WDIC (m)	0.02
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Substrate predominantly fines and organic



Mason Conservation District

Site ID:

PI:

127Q0245

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL	LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	SW
Section:	4
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.07253	
Longitude:	-123.93283	
WA state plane south (NAD 27, feet)		
East:	1,145,183	
North:	652,900	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0181
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 0.25 miles west of the DC-100/US 101 junction.

SPECIES POTENTIAL

	.0.0.12.11.11.12	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments: Confluence with la

Confluence with larger stream 100 meters downstream of site. OHW = 3.90 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	6.10	
OHW (m)	5.25	
Max Depth (m)	0.85	
CHANNEL DESCRIPTION		

3.45

0.50

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.74
Rise (m)	1.88
Length (m)	19.85
Slope (%)	1.29
Bed Material	No
Outfall Drop (m)	0.55
WDIC (m)	0.10
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Span/Toe Ratio

Culvert Comments:

Toe Width (m)

Both ends of pipe are beveled.



Mason Conservation District

Site ID:

PI:

127Q0246

Fish Use: Barrier:

Yes

Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	4
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.07536	
Longitude:	-123.93740	
WA state plane south (NAD 27, feet)		
East:	1,144,092	
North:	653,981	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

OHW = 1.25 meters.

Water crossing is approximately 0.55 miles west of the DC-100/US 101 junction.

Downstream banks are armored with rip rap.

PECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	3.95	
OHW (m)	2.10	
. ,		
Max Depth (m)	0.25	
CHANNEL DESCRIPTION		
Toe Width (m)	0.80	

1.16

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1		
RND		
CST		
0.93		
0.93		
11.26		
3.66		
No		
0.22		
0.03		
No		
2.00		
No		

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0247

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	DC-100	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	5	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.07953	
Longitude:	-123.94374	
WA state plane south (NAD 27, feet)		
East:	1,142,578	
North:	655,569	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0182
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments: OHW = 2.40 meters.

Water crossing is approximately 1.0 mile west of the DC-100/US 101 junction.

SPECIES POTENTIAL

LUIL	OI CILITIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	8.40	
OHW (m)	4.35	
,		
Max Depth (m)	1.10	
CHANNEL DESCRIPTION		
Toe Width (m)	1.95	

0.90

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.76
Rise (m)	1.88
Length (m)	17.86
Slope (%)	0.66
Bed Material	No
Outfall Drop (m)	0.47
WDIC (m)	0.11
Apron	No
Fill Depth (m)	5.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Both ends of pipe are beveled.



Mason Conservation District

Site ID:

PI:

127Q0248

Fish Use:

No

Barrier:

SITE DESCRIPTION
GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NE
Section:	5
Township:	18N
Range:	10W

POSITIONAL DATA

 WGS 84, decimal degrees

 Latitude:
 47.08187

 Longitude:
 -123.94778

 WA state plane south (NAD 27, feet)

 East:
 1,141,610

 North:
 656,465

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Γributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 1.25 miles west of the DC-100/US 101 junction.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

OHW = 0.55 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.40	

1.90

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.76
0.76
No
0.00
0.03
No
1.00
No

Culvert Comments:

Span/Toe Ratio



22.0000

Physical

Hoquiam

City

Mason Conservation District

Site ID: 127Q0249

PI:

Fish Use:

No

Barrier:

OITE	DE00D	DTION
SHE	DESCRI	PHON

GENERAL LOCATION		POSITIONAL DATA		EVALUATION LEVEL COMPLETED		
Road Name:	DC-100	WGS 84, decimal d	egrees		Report Logg	ed
County:	Grays Harbor	Latitude:	47.08453	✓	Field Review	1
1/4 Section:	SE	Longitude:	-123.94959		Threshold D	etermination
Section:	32	WA state plane sou	th (NAD 27, feet)		Expanded TI	nreshold Determination
Township:	19N	East:	1,141,204		Downstream	Check
Range:	10W	North:	657,456		Physical Sur	vey
WATERBODY		Location / Directio	ns:	SPECIE	S POTENTIA	1
Stream:	unnamed	Water crossing is approximately 1.45 miles			Sockeye	Sea Run Cutth
Tributary To:	Davis Cr 22.0180	west of the DC-100/			Sockeye	Sea Ruii Cullii

Site Comments: OHW = 0.40 meters.

	Sockeye	Sea Run Cutthroat
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

WRIA:

Fish Use:

OWNER

Name: Type:

FUP Criteria:

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	IPTION
Toe Width (m)	0.40

1.90

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.76
0.76
No
0.30
0.01
No
1.50
No

Culvert Comments:

Span/Toe Ratio

Upstream and downstream banks armored with rip-rap near site.



Mason Conservation District

Site ID:

PI:

127Q0250 32.23

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

Range:

Stream:

WRIA:

Fish Use:

OWNER

Name:

Type:

WATERBODY

Tributary To:

FUP Criteria:

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	SE
Section:	32
Township:	19N

10W

unnamed

Davis Cr 22.0180

22.0184

Mapped

Hoquiam

City

POSITIONAL DATA

WGS 84, decimal de	gree
Latitude:	

Latitude:	47.08862
Longitude:	-123.94972
WA state plane south (NAD 27, feet)	
East:	1,141,236

658,947

Location / Directions:

North:

Water crossing is approximately 1.75 miles west of the DC-100/US 101 junction.

Site Comments:

Substrate consists of gravels and fines. Confluence with Davis Creek is approximately 40 meters downstream of site. OHW = 4.05 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004	
Field Crew:	Glore/Blatt	
Barrier	Yes	
Passability (%)	33	
Method	LA	
Repair Status	UD	
Problem	outfall drop, slope	

PLUNGE POOL DESCRIPTION

Length (m)	19.00
OHW (m)	5.70
Max Depth (m)	0.60

CHANNEL DESCRIPTION

Toe Width (m)	3.75		
Span/Toe Ratio	0.46		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.73
1.92
14.67
1.18
No
0.51
0.13
No
0.75
No

Culvert Comments:

Both ends of culvert are beveled.



Mason Conservation District

Site ID:

PI:

127Q0251

Fish Use:

No

Barrier:

CIT	ED	ES	CD	IDT	IUV
311	-	LO	CIV		i Oi

GENERAL LOCATION			
Road Name:	DC-120		
County:	Grays Harbor		
1/4 Section:	NE		
Section:	32		
Township:	19N		
Range:	10W		

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09199	
Longitude:	-123.94521	
WA state plane south (NAD 27, feet)		
East:	1,142,412	
North:	660,124	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0184
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.25 miles northeast of the DC-100/DC-120 junction.

Subsurface flows. OHW = 0.45 meters.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
Toe Width (m)	0.45

1.36

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	Unk
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	0.25
Tidegate	No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0252

Fish Use:

No

Barrier:

SIT	ΓF	n	F٩	CR	IPT		N
JI.		$\mathbf{\nu}$	ᆫᇰ	\mathbf{c}	IF I	ı	ı

GENERAL LOCATION		
Road Name:	DC-120	
County:	Grays Harbor	
1/4 Section:	NE	
Section:	32	
Township:	19N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09217	
Longitude:	-123.94424	
WA state plane south (NAD 27, feet)		
East:	1,142,657	
North:	660,179	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0184
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

Water crossing is approximately 0.30 miles northeast of the DC-100/DC-120 junction.

No well defined stream channel with intermittent

subsurface flows. OHW = 0.35 meters.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Гуре:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	0.65	
OHW (m)	0.80	
Max Depth (m)	0.15	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.10
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

No toe measurement due to ephemeral nature of stream.



Mason Conservation District

Site ID:

PI:

127Q0253 14.75

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	DC-120
County:	Grays Harbor
1/4 Section:	NE
Section:	32

19N Township: 10W Range:

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0184
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Hoquiam
Type:	City

POSITIONAL DATA

WGS	84	decimal	degrees
WGS	04,	uecimai	uegrees

Latitude:	47.09467	
Longitude:	-123.94177	
WA state plane south (NAD 27, feet)		
East:	1,143,311	
North:	661,065	

Location / Directions:

Water crossing is approximately 0.55 miles northeast of the DC-100/DC-120 junction.

Site Comments:

Series of rock weirs downstream of culvert. OHW = 2.15 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

PECIE	SPOTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
V	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	2.95
OHW (m)	2.80
Max Depth (m)	0.65

CHANNEL DESCRIPTION

Toe Width (m)	1.80
Span/Toe Ratio	0.50

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.90
0.90
12.74
1.09
No
0.31
0.03
No
0.50
No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0254

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09079	
Longitude:	-123.95208	
WA state plane south (NAD 27, feet)		
East:	1,140,684	

659,764

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

= 2.05 meters.

North:

Water crossing is approximately 2.0 miles northwest of the DC-100/US 101 junction.

Downstream banks armored with rip rap. OHW

SI

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	2.55
OHW (m)	2.40
Max Depth (m)	0.40
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.94
Rise (m)	0.94
Length (m)	10.06
Slope (%)	-2.71
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Length (m)	2.55
OHW (m)	2.40
Max Depth (m)	0.40
CHANNEL DESCRIPTION	

Toe Width (m)	1.70
Span/Toe Ratio	1.81

Culvert Comments:

Plunge pool is man-made with rip-rap acting as downstream control. Culvert is up for replacement by City of Hoquiam - culvert # 7.



Mason Conservation District

Site ID:

PI:

127Q0255

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION **GENERAL LOCATION**

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N

10W

POSITIONAL DATA

WGS 84,	decimal	degree
1 -44		

Latitude:	47.09152
Longitude:	-123.95382
WA state plane south (NAD 27, feet)	

1,140,262 East: 660,047 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination

Expanded Threshold Determination

Downstream Check Physical Survey

WATERBODY

Range:

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 2.05 miles northwest of the DC-100/US 101 junction.

LCIL	SPUILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
~	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

Downstream banks armored with rip-rap. OHW = 1.25 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.60
Max Depth (m)	0.20

CHANNEL DESCRIPTION

Toe Width (m)	1.05
Span/Toe Ratio	1.15

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.91
Rise (m)	0.91
Length (m)	8.36
Slope (%)	-0.56
Bed Material	No
Outfall Drop (m)	0.45
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Culvert is up for replacement by City of Hoquiam, culvert # 8.



Mason Conservation District

Site ID:

PI:

47.09143

127Q0256

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GE	NERAL I	OCATION
_		

WATERBODY

Tributary To:

Stream:

WRIA:

Fish Use:

OWNER Name:

Type:

FUP Criteria:

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

unnamed

Davis Cr 22.0180

22.0000

Yes

Mapped

Hoquiam City

POSITIONAL DATA

WGS 84, decimal de	gree
Latitude:	

Longitude:	-123.95462
WA state plane south (NAD 27, feet)	

	, , , , ,
East:	1,140,062
North:	660,023

Location / Directions:

Water crossing is approximately 2.10 miles northwest of the DC-100/US 101 junction.

Site Comments:

OHW = 2.25 meters.

EVALUATION LEVEL COMPLETED

Physical Survey

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check

SI

PECIES POTENTIA	AL
Sockeye	Sea Run Cutthroat
Pink	Resident Trout
✓ Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	2.30
OHW (m)	2.45
Max Depth (m)	0.45
CHANNEL DESCRIPTION	

Toe Width (m)	1.60
Span/Toe Ratio	1.76

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.91
Rise (m)	0.91
Length (m)	9.56
Slope (%)	0.17
Bed Material	No
Outfall Drop (m)	0.38
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Plunge pool appears to be man-made with riprap acting as downstream control. Culvert is up for replacement by City of Hoquiam - culvert # 9.



Mason Conservation District

Site ID:

PI:

127Q0257

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	DC-100
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09106	
Longitude:	-123.95923	
WA state plane south (NAD 27, feet)		
East:	1,138,908	
North:	659,940	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey
	Expanded Threshold Determination Downstream Check

WATERBODY

Stream:	unnamed
Tributary To:	Davis Cr 22.0180
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments: OHW = 1.25 meters.

Water crossing is approximately 2.30 miles northwest of the DC-100/US 101 junction.

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	4.00
OHW (m)	1.75
Max Depth (m)	0.35
CHANNEL DESCRIPTION	
Toe Width (m)	1.15

1.26

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.91
0.91
11.23
3.12
No
0.00
0.10
No
1.50
No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

127Q0258

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	DC-130
County:	Grays Harbor
1/4 Section:	SW
Section:	4

18N 10W

WATERBODY

Township:

Range:

Stream: unnamed Tributary To: Davis Cr 22.0180 WRIA: 22.0000 Fish Use: FUP Criteria: Mapped

OWNER

Name: Hoquiam City Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.07387 Latitude: -123.94269 Longitude: WA state plane south (NAD 27, feet) 1,142,750 653,497 North:

Location / Directions:

Water crossing is approximately 0.25 miles southwest of the DC-130/DC-100 junction.

Site Comments:

OHW = 1.25 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
✓	Chum	Dolly/Bull Trout
	Chinook	Brook Trout

✓	Coho
	0, 11 1

$\overline{}$		
~	Steelhead	

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
OUANNEL DECORIDEION	

CHANNEL DESCRIPTION

Toe Width (m)	1.00
Span/Toe Ratio	1.09

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.09
Rise (m)	0.97
Length (m)	15.18
Slope (%)	1.87
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

No plunge pool, riffle at downstream end of



Mason Conservation District

Site ID:

PI:

127Q0259

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	DC-130
County:	Grays Harbor
1/4 Section:	SE
Section:	5
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.07377	
Longitude:	-123.94383	
WA state plane south (NAD 27, feet)		
East:	1,142,465	

653,473

EVALUATION LEVEL COMPLETED

L		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	unnamed 22.0000
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:OHW = 0.70 meters.

North:

Water crossing is approximately 0.30 miles southwest of the DC-130/DC-100 junction. Located on small spur 25 meters north of site 127Q0258.

SPECIES POTENTIAL

U.L	OICILITIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
/	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
/	Coho	Brown Trout
/	Steelhead	

OWNER

Name:	Hoquiam
Гуре:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/28/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.35	

2.17

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.76
0.76
12.27
3.48
Yes
0.00
0.03
No
1.50
No

Culvert Comments:

Span/Toe Ratio



WRIA 22 Fish Passage Inventory Site ID: 127Q0260 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged DC-100 WGS 84, decimal degrees Road Name: Grays Harbor 47.07183 **~** Field Review Latitude: County: -123.93424 Threshold Determination SW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 4 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,144,822 10W Physical Survey Range: 652,659 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Davis Cr Stream: Water crossing is approximately 0.35 miles ✓ Sea Run Cutthroat Sockeye Tributary To: Hoquiam R 22.0137 west of the DC-100/US 101 junction. Pink Resident Trout WRIA: 22.0180 Chum **~** Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Mapped Brown Trout **V** Coho Boyer Dam has an Alaskan fishway on left bank **OWNER** Steelhead **V** Hoquiam Name: City Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%) **Bed Material**

Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID:

PI:

47.00633

127Q0261

Fish Use: Barrier:

Yes Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	4015.12
County:	Grays Harbor
1/4 Section:	NE
Section:	33
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal de	egree
Latitude:	

Longitude:	-123.92896
WA state plane south (NAD 27, feet)	
East:	1,145,099
North:	628,736

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0159
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 200 meters northeast of the 4015/4015.12 junction.

Small emerging wetland upstream of culvert.

PECIES P	OTENTIAL	
☐ So	ckeye	✓ Sea Run Cutthroa
Pir	nk	Resident Trout
Ch	ium	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Length (m)	4.45
OHW (m)	2.75
Max Depth (m)	0.65
CHANNEL DESCRIPTION	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.61
0.61
11.63
2.95
No
0.32
0.04
No
2.00
No

Toe Width (m)	0.59
Span/Toe Ratio	1.03

Culvert Comments:

Additional pipe 15 meters downstream affects morphology, stream width measurements taken downstream of site 127Q0262. Fence posts act as debris gate.



Mason Conservation District

Site ID:

PI:

127Q0262

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged Field Review

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL I	OCATION
------------------	---------

Road Name:	Abandoned Rd
County:	Grays Harbor
1/4 Section:	NE
Section:	33
Township:	18N
Range:	10W

POSITIONAL DATA

Location / Directions:

127Q0261. Site Comments: OHW = 1.70 meters.

WGS 84, decimal degrees		
Latitude:	47.00645	
Longitude:	-123.92907	
W/A state plane south (NAD 27 feet)		

East: 1,145,073 628,782 North:

Water crossing is approximately 200 meters northeast of the 4015/4015.12 junction.

Located 15 meters downstream of site

SI

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

WATERBODY

unnamed
NF Little Hoquiam 22.0157
22.0159
Yes
Mapped

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.95
Max Depth (m)	0.15

CHANNEL DESCRIPTION

Toe Width (m)	0.59
Span/Toe Ratio	1.03

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.11
Rise (m)	0.97
Length (m)	8.43
Slope (%)	3.05
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.15
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Tree growing over downstream end of pipe.



Mason Conservation District

Site ID: **127Q0263** F

Fish Use: No

Barrier:

DESCR	

GENERAL LOCATION		
Road Name:	4015	١
County:	Grays Harbor	L
1/4 Section:	NE	L
Section:	33	١
Township:	18N	
Range:	10W	1

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.00368	
Longitude:	-123.92695	
WA state plane south (NAD 27, feet)		
East:	1,145,557	
North:	627,750	

PI:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Site Comments:

OHW = 0.55 meters.

Water crossing is approximately 2.05 miles southwest of the 4015/US 101 junction.

Recent pre-commercial thin has choked stream

with downed trees and associated debris.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)	0.40		

1.52

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.02
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Fine sediments fill 3/4 of downstream end of nine



Mason Conservation District

Site ID:

PI:

127Q0264

Fish Use:

No

Barrier:

		IPT	

GENERAL LOCATION		POSITIONAL DATA		EVALU	EVALUATION LEVEL COMPLETED	
Road Name:	4015.2	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.02005	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.93274		Threshold Determination	
Section:	28	WA state plane south	n (NAD 27, feet)		Expanded Threshold Determination	n
Township:	18N	East:	1,144,374		Downstream Check	
Range:	10W	North: 633,778			Physical Survey	
WATERBODY		Location / Direction	s:	SDECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is approximately 0.10 miles north of the 4015.2/4015 junction.			Sockeye Sea Run Cut	throat
Tributary To:	NF Little Hoquiam 22.0157				Pink Resident Tro	
WRIA:	22.0000					
Fish Use:	No					iut
FUP Criteria:	Physical	Site Comments:			Chinook Brook Trout	
OWNER		OHW = 0.54 meters.			Coho Brown Trout Steelhead	
Name:	Hoquiam					
Type:	City					

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)	0.20		

3.05

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Stream channel is choked with debris upstream and downstream. Picture taken at upstream end of culvert.



Mason Conservation District

Site ID:

PI:

127Q0265

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	4015.2
County:	Grays Harbor
1/4 Section:	NW
Section:	28
Township:	18N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees

Latitude: 47.02178

Longitude: -123.93434

WA state plane south (NAD 27, feet)

East: 1,144,001

North: 634,423

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments: OHW =1.60 meters.

Water crossing is approximately 0.25 miles north of the 4015.2/4015 junction.

SPECIES POTENTIAL

	O I O I LIVIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.65	

0.94

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.61
Slope (%)	2.02
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.03
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio

No plunge pool as stream riffles directly out of culvert.



Mason Conservation District

Site ID:

127Q0266

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Field Review

Fish Use: Barrier:

Yes Unk

PI:

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	4015.2
County:	Grays Harbor
1/4 Section:	NW
Section:	28
Township:	18N

10W

POSITIONAL DATA

WGS 84, decimal degrees

Location / Directions:

Site Comments: OHW = 1.0 meters.

Latitude:	47.02239	
Longitude:	-123.93629	
WA state plane south (NAD 27, feet)		
East:	1,143,525	
North:	634,669	

Water crossing is approximately 0.35 miles north of the 4015.2/4015 junction.

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

Stream:	unnamed
Γributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBRQ
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.15
OHW (m)	1.05
Max Depth (m)	0.24

CHANNEL DESCRIPTION

Toe Width (m)	0.80
Span/Toe Ratio	0.76

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.56
Slope (%)	-0.97
Bed Material	No
Outfall Drop (m)	0.14
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0267

Fish Use:

Yes

Barrier: Unk

> **EVALUATION LEVEL COMPLETED** Report Logged Field Review

> > Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

SITE	DESCRIPT	ſΝ
91 I L	DEGCINII II	

GENERAL LOCATION

GENERAL EGOVINOR	
Road Name:	4015.2
County:	Grays Harbor
1/4 Section:	NW
Section:	28
Township:	18N
Range:	10W

POSITIONAL DATA

Location / Directions:

WGS 84, decimal degrees		
Latitude:	47.02249	
Longitude:	-123.93719	
MA state plane south (NAD 27 feet)		

1,143,304 East: 634,714 North:

Water crossing is approximately 0.40 miles

north of the 4015.2/4015 junction.

S

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

WATERBODY

Range:

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Physical

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

Beaver pond 10 meters downstream of site, Upstream channel is braided marsh area. OHW near 0.6 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LA
Repair Status	UD
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	

CHANNEL DESCRIPTION

Toe Width (m)	0.55
Span/Toe Ratio	1.11

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Upstream end of culvert is recessed under roadbed, inaccessible for length/slope shots.



Mason Conservation District

Site ID:

PI:

127Q0268

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4015.2	
	0 11 1	

Grays Harbor County: 1/4 Section: NW Section: 28 18N Township: 10W Range:

POSITIONAL DATA

WGS 84, decimal degrees

47.02298 Latitude: -123.93819 Longitude: WA state plane south (NAD 27, feet) 1,143,063 634,903 North:

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream: unnamed Tributary To: NF Little Hoquiam 22.0157 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Mapped

Location / Directions:

Water crossing is approximately 0.50 miles north of the 4015/4015.2 junction.

S

PECIES POTENTIAL	
Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
Steelhead	

OWNER

Name: Hoquiam City Type:

Site Comments:

OHW = 1.05 meters.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop, slope

PLUNGE POOL DESCRIPTION

Max Depth (m) CHANNEL DESCRI	
Max Donth (m)	0.30
OHW (m)	1.10
Length (m)	2.05

Toe Width (m)	0.60
Span/Toe Ratio	1.53

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sg m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.92
Rise (m)	0.91
Length (m)	7.49
Slope (%)	1.02
Bed Material	No
Outfall Drop (m)	0.27
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Plunge pool excavated and filled with rip-rap to prevent scour.



Mason Conservation District

Site ID: **127Q0269** PI:

Fish Use:

No

Barrier:

SI	TΕ	DE	SC	RI	PΤ	IOI	١

GENERAL LOCATION POSITIONAL DATA		EVALUATION LEVEL COMPLETED				
Road Name:	4015	WGS 84, decimal degrees			Report Logged	
County:	Grays Harbor	Latitude:	47.01892	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.93293		Threshold Determination	
Section:	28	WA state plane south	n (NAD 27, feet)		Expanded Thresho	old Determination
Township:	18N	East:	1,144,307		Downstream Check	
Range:	10W	North:	633,368		Physical Survey	
WATERBODY		Location / Direction	s:	SPECIE	S POTENTIAL	
Stream:	unnamed	Water crossing is approximately 0.90 miles west of the 4015/US 101 junction. Site Comments:			Sockeye	Sea Run Cutthroat
Tributary To:	NF Little Hoquiam 22.0157				Pink	Resident Trout
WRIA:	22.0000				Chum	
Fish Use:	No					Dolly/Bull Trout
FUP Criteria:	Physical				Chinook	Brook Trout
OWNER		OHW = 0.50 meters.			Coho Steelhead	Brown Trout
Name:	Hoquiam			_		
Type:	City					
LEVEL A AN						

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)	0.50	

1.22

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.01
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Small overflow culvert on right bank. Picture taken at upstream end of pipe.



Mason Conservation District

Site ID:

PI:

127Q0270

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION		
Road Name:	4015	
County:	Grays Harbor	
1/4 Section:	SW	
Section:	28	
Township:	18N	
Range:	10W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.01604	
Longitude:	-123.93387	
WA state plane south (NAD 27, feet)		
East:	1,144,029	
North:	632,327	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	NF Little Hoquiam 22.0157
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

OHW = 1.90 meters.

Water crossing is approximately 1.10 miles west of the 4015/US 101 junction.

Road beginning to fail on downstream side.

PECIES POTENTIAL				
Sockeye	Sea Run Cutthroa			
Pink	Resident Trout			
Chum	Dolly/Bull Trout			
Chinook	Brook Trout			
✓ Coho	Brown Trout			
✓ Steelhead				

OWNER

Name:	Hoquiam
Type:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/29/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)			
OHW (m)			
Max Depth (m)			
CHANNEL DESCRIPTION			
Toe Width (m)	1.00		

0.61

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
0.61
0.61
6.46
2.37
Yes
0.00
0.03
No
1.00
No

Culvert Comments:

Span/Toe Ratio

Additional pipe on left bank upstream with no outlet located.



Mason Conservation District

Site ID:

PI:

127Q0272

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

		NOITA

Road Name:	F-line
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees			
Latitude:	47.08420		
Longitude:	-123.83335		
WA state plane south (NAD 27, feet)			
East:	1,170,130		
North:	656,088		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Lytle Cr 22.0144
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

Water crossing is approximately 1.25 miles west of the F-line/E Hoquiam Rd junction.

Substrate consists of clay with some gravel and

SPECIES POTENTIAL

PECIES	PUIENTIAL	
	Sockeye	✓ Sea Run Cutthroa
F	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout
✓ 5	Steelhead	

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/21/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

coble. OHW = 1.70 meters.

Length (m)	3.10
OHW (m)	2.05
· · · · · · · · · · · · · · · · · · ·	
Max Depth (m)	0.53
CHANNEL DESCRIPTION	
Toe Width (m)	1.05

1.01

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.08
Rise (m)	1.08
Length (m)	12.22
Slope (%)	3.27
Bed Material	No
Outfall Drop (m)	0.18
WDIC (m)	0.04
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID:

PI:

47 0055<u>8</u>

127Q0273

Fish Use:

Yes

Barrier: Unk

EVALUATION LEVEL COMPLETED Report Logged Field Review

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	2920
County:	Grays Harbor
1/4 Section:	SW
Section:	29
Township:	19N

09W

POSITIONAL DATA

WGS 84, decin	nal degrees
Latituda	

Location / Directions:

Site Comments:

Latitude:	47.09558	
Longitude:	-123.83040	
WA state plane south (NAD 27, feet)		
East:	1,171,039	
North:	660,207	

Water crossing is approximately 0.25 miles

Wetland influences with abundant LWD.

north of the F-line/2920 junction.

SPECIES POTENTIAL	
Sockeye	Sea Run Cutthroat
Pink	✓ Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhead	

WATERBODY

Range:

Stream:	Lytle Cr
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0144
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/21/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	6.75
OHW (m)	2.25
Max Depth (m)	0.30
CHANNEL DESCRIPTION	

Toe Width (m)	1.10
Span/Toe Ratio	0.55

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	8.84
Slope (%)	0.28
Bed Material	No
Outfall Drop (m)	0.05
WDIC (m)	0.05
Apron	No
Fill Depth (m)	
Tidegate	No

Culvert Comments:

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

47.09856

-123.82987

127Q0274

EVALUATION LEVEL COMPLETED Report Logged

Threshold Determination

Downstream Check Physical Survey

Expanded Threshold Determination

Field Review

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	2920
County:	Grays Harbor
1/4 Section:	SW
Section:	29
Township:	19N
Range:	09W

POSITIONAL DATA

Longitude:

WGS 84, decimal de	egrees
Latitude:	

Location / Directions:

Site Comments: OHW = 0.95 meters.

WA state plane south	n (NAD 27, Teet)
East:	1,171,215
North:	661,287

Water crossing is approximately 0.50 miles

north of the F-line/2920 junction.

SI

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
V	Steelhead	

WATERBODY

Stream:	unnamed
Tributary To:	Lytle Cr 22.0144
WRIA:	22.0000
Fish Use:	Yes
FUP Criteria:	Mapped

OWNER

Name:	Grays Harbor
Type:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/21/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.75
OHW (m)	1.20
Max Depth (m)	0.19

CHANNEL DESCRIPTION

Toe Width (m)	0.95
Span/Toe Ratio	1.29

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.23
Rise (m)	1.23
Length (m)	11.02
Slope (%)	3.18
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.07
Apron	No
Fill Depth (m)	2.50
Tidegate	No

Culvert Comments:

Slight grade break in culvert.



Mason Conservation District

Site ID:

PI:

127Q0275

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

Road Name:	F-line
County:	Grays Harbor
1/4 Section:	NW
Section:	32
Township:	19N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.09257	
Longitude:	-123.83354	
WA state plane south (NAD 27, feet)		
East:	1,170,211	
North:	659,142	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	Lytle Cr
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0144
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments: OHW = 2.20 meters.

Water crossing is approximately 1.90 miles northwest of the F-line/E Hoquiam Rd junction.

SPECIES POTENTIAL

LOIL	.SI OILNIIAL	
	Sockeye	Sea Run Cutthroa
	Pink	Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
~	Steelhead	

OWNER

Name:	Grays Harbor
Туре:	County

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	10/21/2004
Field Crew:	Glore/Blatt
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	8.00	
OHW (m)	2.00	
Max Depth (m)	0.35	
CHANNEL DESCRIPTION		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.70
Rise (m)	1.31
Length (m)	12.13
Slope (%)	0.34
Bed Material	No
Outfall Drop (m)	0.07
WDIC (m)	0.05
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Length (m)	8.00
OHW (m)	2.00
Max Depth (m)	0.35

Toe Width (m)	1.70
Span/Toe Ratio	1.00

Culvert Comments:

Level B completed on12/15/05.



Mason Conservation District

Site ID:	127
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PI:

27Q0276

Fish Use:

No

Barrier:

SITF			

GENERAL LOCATION

Road Name:	3210.1
County:	Grays Harbor

 1/4 Section:
 NW

 Section:
 29

 Township:
 20N

 Township:
 20N

 Range:
 09W

WATERBODY

 Stream:
 unnamed

 Tributary To:
 EF Hoquiam 22.0138

 WRIA:
 22.0154

 Fish Use:
 No

 FUP Criteria:
 Physical

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.19461

 Longitude:
 -123.83324

 WA state plane south (NAD 27, feet)

East: 1,171,858
North: 696,323

Location / Directions:

Water crossing is approximately 0.50 miles north of gate at the 3210/3210.8 junction.

Site Comments:

Wetland vegetation through upstream and downstream channel, small braided stream. OHW = 0.45 meters.

EVALUATION LEVEL COMPLETED

Report Logge	d
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Field Review
Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat

Pink Resident Trout
Chum Dolly/Bull Trout

Chum Dolly/Bull Trout
Chinook Brook Trout

Coho Brown Trout

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/2/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.50
OHW (m)	1.20
Max Depth (m)	0.37

CHANNEL DESCRIPTION

Toe Width (m)	0.30
Span/Toe Ratio	1.57

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sg m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.10
WDIC (m)	0.08
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0277

EVALUATION LEVEL COMPLETED

Threshold Determination

Downstream Check

Physical Survey

Expanded Threshold Determination

Report Logged Field Review Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	3210.1
County:	Grays Harbor
1/4 Section:	SW
Section:	20
Township:	20N
Range:	09W

POSITIONAL DATA

MCC 04 decimal degrees

Location / Directions:

Site Comments:

WGS 84, decimal de	egrees
Latitude:	47.19989
Longitude:	-123.83218
WA state plane sout	h (NAD 27 feet)

East: 1,172,203

North: 698,235

Water crossing is approximately 0.65 miles

Rayonier survey stake at site "3210.1, #3916,

north of the 3210/3210.1 junction.

0.589". OHW = 1.35 meters.

PECIE	S POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
~	Coho	Brown Trout
	Steelhead	

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0154
Fish Use:	Yes
FUP Criteria:	Physical

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	11/2/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	33
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	5.95
OHW (m)	2.35
Max Depth (m)	1.00

CHANNEL DESCRIPTION

Toe Width (m)	1.35
Span/Toe Ratio	0.83

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.12
Rise (m)	1.12
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.28
WDIC (m)	
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:

Logs on downstream end of culvert are confining plunge pool. Unable to obtain level A laser shots, upstream end of culvert is buried. Estimated slope =3% with clinometer.



WRIA 22 Fish Passage Inventory Site ID: 127Q0278 Fish Use: No PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5500 WGS 84, decimal degrees Road Name: Grays Harbor 47.16965 **~** Field Review Latitude: County: -123.85093 Threshold Determination SW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 31 WA state plane south (NAD 27, feet) Downstream Check 20N Township: 1,167,077 09W Physical Survey Range: 687,413 North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.10 miles Sockeye Sea Run Cutthroat Tributary To: unnamed 22.0150 north of the 5500/Youmans Rd junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: No **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Site is a puncheon. OHW < 0.60 meters. **OWNER** Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m)

Slope (%)
Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID: 12

127Q0279

Fish Use:

Yes

PI:

Barrier: Yes

SITE	DESCR	IPTION
------	-------	--------

GENERAL LOCATION Road Name: 5500.11 County: Grays Harbor 1/4 Section: SW Section: 31

 Township:
 20N

 Range:
 09W

WATERBODY

 Stream:
 unnamed

 Tributary To:
 unnamed 22.0150

 WRIA:
 22.0000

 Fish Use:
 Yes

 FUP Criteria:
 Physical

OWNER

Name: ayonier Timberlands Oprtg C
Type: Private

POSITIONAL DATA

WGS 84, decimal degrees

 Latitude:
 47.17650

 Longitude:
 -123.84907

 WA state plane south (NAD 27, feet)

 East:
 1,167,644

689,890

Location / Directions:

North:

Water crossing is approximately 0.30 miles northeast of the 5500.1/5500.11 junction.

Site Comments:

Rayonier survey stake at site "5500.11, 3841,

EVALUATION LEVEL COMPLETED

	Report Logged
V	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check

Physical Survey

SPECIES POTENTIAL

Sockeye	
Pink	

Chum Chinook

☐ Chinook ☐ Coho

•	
	Stoolhoad

_			
/	Sea	Run	Cutthroat

✓ Resident Trout

Dolly/Bull Trout

Brook Trout

Brook I rout

Brown Trout

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/22/2004	
Field Crew:	Glore/Blatt	
Barrier	Yes	
Passability (%)	67	
Method	LA	
Repair Status	UD	
Problem	slope	

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		

CHANNEL DESCRIPTION

Toe Width (m)

Span/Toe Ratio

POTENTIAL HABITAT GAIN

Survey Type:	
_ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.46
Rise (m)	0.46
Length (m)	6.95
Slope (%)	2.74
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.09
Apron	No
Fill Depth (m)	0.25
Tidegate	No

Culvert Comments:

Braided wetland upstream and downstream of culvert making OHW and plunge pool measurements unobtainable.



WRIA 22 Fish Passage Inventory Site ID: 127Q0280 Fish Use: No PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** 5500.11 WGS 84, decimal degrees Report Logged Road Name: Grays Harbor 47.17897 **~** Field Review Latitude: County: Threshold Determination -123.84927 NW Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 31 WA state plane south (NAD 27, feet) Downstream Check 20N Township: 1,167,633 09W Physical Survey 690,791 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.50 miles Sockeye Sea Run Cutthroat Tributary To: unnamed 22.0150 northwest of the 5500.11/5500.1 junction, at the Pink Resident Trout very end of the 5500.11. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout Coho Wet crossing with perennial tributary. OHW = **OWNER** 0.30 meters. Steelhead ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m)

Slope (%)
Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

WRIA 22 Fish Passage Inventory Site ID: 127Q0281 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged 5500 WGS 84, decimal degrees Road Name: Grays Harbor 47.17128 **~** Field Review Latitude: County: -123.84453 Threshold Determination SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 31 WA state plane south (NAD 27, feet) Downstream Check 20N Township: 1,168,691 09W Physical Survey 687,938 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 1.40 miles Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0150 northeast of the 5500/Youmans Rd junction. Pink Resident Trout WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Site is a puncheon. Upstream is small wetland. **OWNER** Steelhead **V** ayonier Timberlands Oprtg C Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%) **Bed Material** Outfall Drop (m)

WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID: 127Q0282

PI:

Fish Use:

No

Barrier:

SITE	DESCRIP	MOIT
91 I L	PEGGINII	11011

GENERAL LOCATION		
Road Name:	5500	
County:	Grays Harbor	
1/4 Section:	SE	
Section:	31	
Township:	20N	
Range:	09W	

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.17208	
Longitude:	-123.84121	
WA state plane south (NAD 27, feet)		
East:	1,169,529	
North:	688,197	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	No
FUP Criteria:	Physical

Location / Directions:

Water crossing is approximately 1.60 miles northeast of the 5500/Youmans Rd junction.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroat
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

Site Comments:

Rayonier survey stake at site "5500, #3818, 1.581". Upstream is large wetland, downstream flows through upland plants and channel has perennial growth throughout. OHW = 0.60

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
,	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Measurements not obtainable due to wetland influences.



Mason Conservation District

Site ID:

PI:

127Q0283

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5500
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	20N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.17237	
Longitude:	-123.84030	
WA state plane south (NAD 27, feet)		
East: 1,169,760		
North:	688,291	

EVALUATION LEVEL COMPLETED

		Report Logged
•	/	Field Review
		Threshold Determination
		Expanded Threshold Determination
		Downstream Check
		Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Water crossing is approximately 1.60 miles northeast of the 5500/Youmans Rd junction.

SPECIES POTENTIAL

PECIES PUTENTIAL		
☐ So	ckeye	Sea Run Cutthroa
Pir	nk	✓ Resident Trout
Ch	um	Dolly/Bull Trout
Ch	inook	Brook Trout
✓ Co	ho	Brown Trout
✓ Ste	eelhead	

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

Site Comments:

Downstream channel joins large wetland with pond, upstream is also wetland. Rayonier survey stake at site '5500, #3819, 1.630".

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	6.96
Slope (%)	1.10
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.20
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

Stream width and plunge pool measurements unobtainable due to wetland influences.



Mason Conservation District

Site ID:

PI:

127Q0284

Fish Use:

Yes

Barrier: Unk

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	5500
County:	Grays Harbor
1/4 Section:	SW
Section:	32
Township:	20N
Range:	09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.17247	
Longitude:	-123.83970	
WA state plane south (NAD 27, feet)		
East:	1,169,912	
North:	688,321	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Physical

Location / Directions:

Site Comments:

downstream.

Water crossing is approximately 1.65 miles northeast of the 5500/Youmans Rd junction.

Rayonier survey stake at site "5500, #3820,

1.660". Large wetlands upstream and

SPECIES POTENTIAL

PECIES POTENTIAL			
☐ So	ckeye	✓ Sea Run Cutthroa	
Pir	nk	Resident Trout	
Ch	ium	Dolly/Bull Trout	
Ch	inook	Brook Trout	
✓ Co	ho	Brown Trout	
✓ Ste	eelhead		

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Unk
Passability (%)	
Method	LBNA
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	4.50	
OHW (m)	1.80	
Max Depth (m)	0.45	
CHANNEL DESCRIPTION		
Toe Width (m)		

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.61
Rise (m)	0.61
Length (m)	7.63
Slope (%)	0.61
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.05
Apron	No
Fill Depth (m)	0.25
Tidegate	No

Culvert Comments:

Span/Toe Ratio

Level B not applicable due to lack of downstream control.



Mason Conservation District

Site ID:

PI:

127Q0285

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

GENERAL LOCATION Road Name: 5500 County: Grays Harbor 1/4 Section: SW Section: 32 Township: 20N Range: 09W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	47.17279	
Longitude:	-123.83844	
WA state plane south (NAD 27, feet)		
East:	1,170,230	
North:	688,427	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0150
Fish Use:	Yes
FUP Criteria:	Mapped

Location / Directions:

Site Comments:

measurements.

Water crossing is approximately 1.70 miles northeast of the 5500/Youmans Rd junction.

Downstream has large backwatered pool with

no obvious downstream control for plunge pool

SPECIES POTENTIAL

PECIES PUTEN	IIAL
Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
✓ Coho	Brown Trout
✓ Steelhea	d

OWNER

Name:	ayonier Timberlands Oprtg
Type:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	12/22/2004
Field Crew:	Glore/Blatt
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	slope

PLUNGE POOL DESCRIPTION

Length (m)		
OHW (m)		
Max Depth (m)		
CHANNEL DESCRIPTION		
Toe Width (m)		
Span/Toe Ratio		

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.20
Rise (m)	1.20
Length (m)	7.05
Slope (%)	1.18
Bed Material	No
Outfall Drop (m)	0.00
WDIC (m)	0.90
Apron	No
Fill Depth (m)	0.25
Tidegate	No

Culvert Comments:

Stream width and plunge pool measurements not obtainable due to wetland influences at site.



Mason Conservation District

Site ID:

PI:

127Q0286

Fish Use:

Yes

Barrier: Yes

SITE DESCRIPTION

	LOCA	

Road Name:	2903
County:	Grays Harbor
1/4 Section:	SE
Section:	6
Township:	19N
Range:	09W

Range: WATERBODY

unnamed
EF Hoquiam 22.0138
22.0000
Yes
Mapped

OWNER

Name:	Ken Lentz
Type:	Private

POSITIONAL DATA

WGS 84, d	ecimal	degrees
-----------	--------	---------

Latitude:	47.15287	
Longitude:	-123.84135	
WA state plane south (NAD 27, feet)		
East:	1,169,197	
North:	681,198	

Location / Directions:

Water crossing is approximately 75 meters southeast of the 2903/Youmans Rd junction.

Site Comments:

Wetland upstream, free flowing stream downstream. Confluence with EF Hoquiam is approximately 100 meters downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

PECIE	5 POTENTIAL	
	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
✓	Coho	Brown Trout
	Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Blatt/Hamel
Barrier	Yes
Passability (%)	67
Method	LA
Repair Status	UD
Problem	outfall drop

PLUNGE POOL DESCRIPTION

Length (m)	9.20	
OHW (m)	5.00	
Max Depth (m)	2.00	
CHANNEL DESCRIPTION		

CHANNEL DESCRIPTION

Toe Width (m)	1.40
Span/Toe Ratio	0.89

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CAL
Span (m)	1.25
Rise (m)	1.25
Length (m)	8.95
Slope (%)	-0.30
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.20
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Culvert Comments:



Mason Conservation District

Site ID:

PI:

127Q0287

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION	
Road Name:	2903
County:	Grays Harbor
1/4 Section:	NE
Section:	7
Township:	19N

09W

POSITIONAL DATA

 WGS 84, decimal degrees

 Latitude:
 47.15078

 Longitude:
 -123.84055

 WA state plane south (NAD 27, feet)

 East:
 1,169,365

680,427

EVALUATION LEVEL COMPLETED

Ш	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Range:

unnamed
EF Hoquiam 22.0138
22.0000
Yes
Physical

Location / Directions:

Site Comments:

North:

Water crossing is approximately 0.20 miles south of the 2903/Youmans Rd junction.

Garbage has been dumped around site.

SPECIES POTENTIAL

PECIES	POTENTIAL	
	Sockeye	✓ Sea Run Cutthroa
F	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout
V 5	Steelhead	

OWNER

Name:	Sherman Esses
Гуре:	Private

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Blatt/Hamel
Barrier	No
Passability (%)	100
Method	LB
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.80
OHW (m)	1.95
Max Depth (m)	0.55
CHANNEL DESCRIPTION	

0.80

0.80

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.64
Rise (m)	0.64
Length (m)	9.24
Slope (%)	0.11
Bed Material	No
Outfall Drop (m)	0.18
WDIC (m)	0.14
Apron	No
Fill Depth (m)	1.50
Tidegate	No

Span/Toe Ratio

Culvert Comments:

Toe Width (m)

Level B completed on 1/25/05.



Mason Conservation District

Site ID:

PI:

127Q0288

Fish Use:

Yes

Barrier: No

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	2903
County:	Grays Harbor
1/4 Section:	NE
Section:	7

19N

09W Range:

WATERBODY

Township:

unnamed Stream: Tributary To: EF Hoquiam 22.0138 WRIA: 22.0000 Fish Use: Yes FUP Criteria: Physical

OWNER

Sherman Esses Name: Private Type:

POSITIONAL DATA

WGS 84, decimal degrees

47.15061 Latitude: -123.84095 Longitude: WA state plane south (NAD 27, feet) 1,169,263 680,369 North:

Location / Directions:

Water crossing is approximately 0.20 miles south of the 2903/Youmans Rd junction, 40 meters upstream of culvert 127Q0287.

Site Comments:

Garbage has been dumped around site. Culvert 127Q0287 is 40 meters downstream.

EVALUATION LEVEL COMPLETED

	Report Logged
~	Field Review

Threshold Determination

Expanded Threshold Determination

Downstream Check Physical Survey

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
	Pink	✓ Resident Trout
	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
V	Coho	Brown Trout

Coho

Steelhead

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	1/24/2005
Field Crew:	Glore/Hamel
Barrier	No
Passability (%)	100
Method	LA
Repair Status	OK
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	1.55
OHW (m)	1.55
Max Depth (m)	0.25

CHANNEL DESCRIPTION

Toe Width (m)	0.70
Span/Toe Ratio	0.93

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.65
Rise (m)	0.65
Length (m)	14.85
Slope (%)	-0.31
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.35
Apron	No
Fill Depth (m)	2.00
Tidegate	No

Culvert Comments:

Debris pile at downstream end of culvert.



Mason Conservation District

Site ID: **127Q0289**

PI:

Fish Use:

No

Barrier:

		CR		

GENERAL LOC	ATION	POSITIONAL DATA	1	EVALU	ATION LEVEL C	COMPLETED
Road Name:	2903	WGS 84, decimal de	egrees		Report Logged	l
County:	Grays Harbor	Latitude:	47.14980	✓	Field Review	
1/4 Section:	NW	Longitude:	-123.83801		Threshold Dete	ermination
Section:	8	WA state plane sout	th (NAD 27, feet)		Expanded Thre	eshold Determination
Township:	19N	East:	1,169,980		Downstream C	heck
Range:	09W	North:	680,045		Physical Surve	y
WATERBODY		Location / Direction	ns:	SPECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is an	proximately 0.30 miles		Sockeye	Sea Run Cutthroat
Tributary To:	EF Hoquiam 22.0138	southeast of the 2903/Youmans Rd junction.			Pink	Resident Trout
WRIA:	22.0000				Chum	Dolly/Bull Trout
Fish Use:	No					Brook Trout
FUP Criteria:	Physical	Site Comments:			Chinook	
OWNER			m of culvert. Perennial bughout stream channel.		Coho Steelhead	Brown Trout
Name:	Fruit Growers Supply Co	OHW = 0.40 meters				
Type:	Private					
LEVEL A AN	IALYSIS					
SUMMARY INFO	DRMATION	PLUNGE POOL DE	SCRIPTION	POTEN	ITIAL HABITAT	GAIN
Review Date:	1/25/2005	Length (m)		Survey	Туре:	

CULVERT DESCRIPTION

Field Crew:
Barrier
Passability (%)
Method
Repair Status
Problem

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.31
Rise (m)	0.31
Length (m)	
Slope (%)	
Bed Material	Yes
Outfall Drop (m)	0.00
WDIC (m)	0.08
Apron	No
Fill Depth (m)	1.00
Tidegate	No

Glore/Hamel

Length (m)	
OHW (m)	
Max Depth (m)	
1 (/	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

Culvert Comments:

No measurable plunge pool.



Mason Conservation District

Site ID: 127Q0290 Fish Use: PI:

SITE DESCRIPTION

GENERAL LOCATION

Road Name:	2903
County:	Grays Harbor
1/4 Section:	NW
Section:	8
Township:	19N
Range:	09W

WATERBODY

Stream:	unnamed
Tributary To:	EF Hoquiam 22.0138
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Physical

OWNER

Name:	Fruit Growers Supply Co
Type:	Private

POSITIONAL DATA

WGS 84,	decimal	degrees
---------	---------	---------

Latitude:	47.14776	
Longitude:	-123.83695	
WA state plane south (NAD 27, feet)		
East:	1,170,212	
North:	679,289	

Location / Directions:

Water crossing is approximately 0.50 miles southeast of the 2903/Youmans Rd junction.

Site Comments:

Culvert's primary function is cross drainage. Perennial vegetation growing throughout channel. OHW < 0.60 meters.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

No

Barrier:

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	1/25/2005
Field Crew:	Glore/Hamel
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	2.45
OHW (m)	1.60
Max Depth (m)	0.40

CHANNEL DESCRIPTION

Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	0.47
Rise (m)	0.47
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.30
WDIC (m)	0.02
Apron	No
Fill Depth (m)	0.50
Tidegate	No

Culvert Comments:

No stream width measurement due to poorly defined channel.



WRIA 22 Fish Passage Inventory Site ID: 127Q0291 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged Private Rd WGS 84, decimal degrees Road Name: Grays Harbor 47.04352 **~** Field Review Latitude: County: Threshold Determination -123.97247 SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,134,850 10W Physical Survey 642,763 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is approximately 0.40 miles Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0177 west of the Ocean Beach Rd/Private Rd Pink Resident Trout iunction. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Stream channel is backwatered. Site is a **OWNER** Steelhead puncheon. Atkins Tree Farm LLC Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

WRIA 22 Fish Passage Inventory Site ID: 127Q0292 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Private Rd WGS 84, decimal degrees Report Logged Road Name: Grays Harbor 47.04368 **~** Field Review Latitude: County: Threshold Determination -123.97101 1/4 Section: SE Longitude: **Expanded Threshold Determination** Section: 18 WA state plane south (NAD 27, feet) Downstream Check 18N Township: 1,135,216 10W Physical Survey 642,805 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** unnamed Stream: Water crossing is approximately 75 meters Sockeye ✓ Sea Run Cutthroat Tributary To: unnamed 22.0177 north of private road on northbound spur Pink Resident Trout between sites 127Q0121 and 127Q0291. WRIA: 22.0000 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Physical Brown Trout **V** Coho Site is a puncheon. Road ends immediately OWNER after water crossing. Channel is backwatered Steelhead with beaver influence. Atkins Tree Farm LLC Name: Private Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m)

Slope (%)
Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

WRIA 22 Fish Passage Inventory Site ID: 127Q0293 Fish Use: Yes PI: Barrier: **Mason Conservation District** SITE DESCRIPTION POSITIONAL DATA **GENERAL LOCATION EVALUATION LEVEL COMPLETED** Report Logged WGS 84, decimal degrees Road Name: Abandoned grade Grays Harbor 47.10267 **~** Field Review Latitude: County: Threshold Determination -123.92424 SE Longitude: 1/4 Section: **Expanded Threshold Determination** Section: 28 WA state plane south (NAD 27, feet) Downstream Check 19N Township: 1,147,798 10W Physical Survey 663,788 Range: North: WATERBODY **Location / Directions: SPECIES POTENTIAL** Stream: unnamed Water crossing is located on abandoned grade Sockeye ✓ Sea Run Cutthroat Tributary To: Davis Cr 22.0180 near the DC-120 line. Pink Resident Trout WRIA: 22.0184 Chum Dolly/Bull Trout Fish Use: Yes **Brook Trout** Chinook Site Comments: FUP Criteria: Mapped Brown Trout **V** Coho Site appears to be old puncheon with no visible **OWNER** in stream structure. OHW =1.10 meters. Steelhead Hoquiam Name: City Type: **LEVEL A ANALYSIS SUMMARY INFORMATION** PLUNGE POOL DESCRIPTION **POTENTIAL HABITAT GAIN** Review Date: Length (m) Survey Type: Field Crew: Length (m): OHW (m) Barrier Max Depth (m) Spawning (sq m) Passability (%) CHANNEL DESCRIPTION Rearing (sq m) Method Toe Width (m) Repair Status Span/Toe Ratio Problem **CULVERT DESCRIPTION Culvert Comments:** Sequencer: Shape Material Span (m) Rise (m) Length (m) Slope (%)

Bed Material
Outfall Drop (m)
WDIC (m)
Apron
Fill Depth (m)
Tidegate

Mason Conservation District

Site ID: 127

PI:

127Q0294

Fish Use:

No

Barrier:

CIT	re		CC	CR	IDT	101	A
OI I		u	ᆮᇰ	ᅜᅑ	IP I	IUI	N

GENERAL LOCATION		POSITIONAL DATA	
Road Name:	Private Rd	WGS 84, decimal deg	grees
County:	Grays Harbor	Latitude:	46.97834
1/4 Section:	NE	Longitude:	-123.90237
Section:	10	WA state plane south	(NAD 27, feet)
Township:	17N	East:	1,151,286
Range:	10W	North:	618,249
WATERBODY		Location / Directions	s:
Stroom:	unnamed		

Chehalis R 22.0190

22.0000

Other

Hoquiam

City

Water crossing is approximately 250 meters south of the Adams St/Firman St junction.

Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch.

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

SPECIES POTENTIAL

t

LEVEL A ANALYSIS

Tributary To:

WRIA:

Fish Use:

OWNER

Name:

Type:

FUP Criteria:

SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRIPTION	
Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1		
RND		
SST		
1.08		
1.08		
No		
0.05		
0.00		
DS		
1.00		
No		

Culvert Comments:



Mason Conservation District

Site ID: **127Q0295**

PI:

Fish Use:

No

Barrier:

SITE	DESCR	IPTION

GENERAL LOCATION Road Name: Private Rd County: Grays Harbor 1/4 Section: NE Section: 10 Township: 17N Range: 10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.97791	
Longitude:	-123.90237	
WA state plane south (NAD 27, feet)		
East:	1,151,279	
North:	618,093	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

MAILNEODI	
Stream:	unnamed
Γributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

Location / Directions:

Water crossing is approximately 250 meters south of the Adams St/Firman St junction.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments: Stream drains Cit

Stream drains City of Hoquiam Adams St pump station in roadside ditch.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/19/2005
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRI	PTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

1.1
RND
CST
1.06
1.06
No
0.22
0.01
No
1.00
No

Culvert Comments:



Mason Conservation District

Site ID:	127Q0296	Fish Use:	No
PI:		Barrier:	

DITE DECODIBIION

SITE DESCR	IFTION					
GENERAL LOCATION		POSITIONAL DATA	POSITIONAL DATA		EVALUATION LEVEL COMPLETED	
Road Name:	Private Dr	WGS 84, decimal degrees		Report Logged		
County:	Grays Harbor	Latitude:	46.97655	✓	Field Review	
1/4 Section:	NE	Longitude:	-123.90242		Threshold Determination	
Section:	10	WA state plane south (NAD	27, feet)		Expanded Threshold Determination	
Township:	17N	East:	1,151,245		Downstream Check	
Range:	10W	North:	617,597		Physical Survey	
WATERBODY		Location / Directions:		SPECIE	ES POTENTIAL	
Stream:	unnamed	Water crossing is approxima			Sockeye Sea Run Cutthroat	
Tributary To:	Chehalis R 22.0190	south of the Adams St/Firms private drive on west side of			Pink Resident Trout	
WRIA:	22.0000	private unive on west side of	Toau.		Chum Dolly/Bull Trout	
Fish Use:	No	Site Comments:			Chinook Brook Trout	
FUP Criteria:	Physical	Site Comments:			Coho Brown Trout	
OWNER		Stream drains City of Hoqui station in roadside ditch.	am Adams St pump		Steelhead	
Name:	Hoquiam					
Type:	City					
LEVEL A AN	ALYSIS					
SUMMARY INFO	RMATION	PLUNGE POOL DESCRIP	TION	POTEN	ITIAL HABITAT GAIN	
Review Date:	7/19/2005	Length (m)		Survey	Type:	
Field Crew:	Glore/Blatt	OHW (m)		Length	(m):	
Barrier		Max Depth (m)		Spawni	ng (sq m)	
Passability (%)		· · · · · —		Rearing		
Method		CHANNEL DESCRIPTION		Nearling	3 (34 III)	
Danair Ctatus		Toe Width (m)				

CULVERT DESCRIPTION

Problem

1.1
RND
CST
1.06
1.06
No
0.00
0.10
No
1.00
No

Culvert Comments:

Span/Toe Ratio



Mason Conservation District

Site ID: 127Q0297

PI:

Fish Use:

No

Barrier:

SITE	DESCRIPTION	ON

GENERAL LOCATION			
Road Name:	Airport Way		
County:	Grays Harbor		
1/4 Section:	SE		
Section:	10		
Township:	17N		
Range:	10W		

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.97232	
Longitude:	-123.90242	
WA state plane south (NAD 27, feet)		
East:	1,151,179	
North:	616,058	

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Chehalis R 22.0190
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

Location / Directions:

Water crossing is approximately 5 meters west of the Airport Way/Adams St junction.

SPECIES POTENTIAL

Sockeye	Sea Run Cutthroa
Pink	Resident Trout
Chum	Dolly/Bull Trout
Chinook	Brook Trout
Coho	Brown Trout
Steelhead	

OWNER

Name:	Hoquiam
Type:	City

Site Comments:

Stream drains City of Hoquiam Adams St pump station in roadside ditch. Outfall is onto tidal flats of Grays Harbor.

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCR	IPTION
CHANNEL DESCRI	PTION

POTENTIAL HABITAT GAIN

Survey Type:	
ength (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	CST
Span (m)	1.08
Rise (m)	1.08
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.20
WDIC (m)	0.02
Apron	No
Fill Depth (m)	1.00
Tidegate	Yes

Culvert Comments:



Mason Conservation District

Site ID: **127**

PI:

127Q0298

Fish Use:

No

Barrier:

SI	E	DE	:50	KIP	HIC	חי
GE	NEI	RAL	LO	CATI	ON	

Road Name:	K St
County:	Grays Harbor
1/4 Section:	SW
Section:	12
Township:	17N
Range:	10W

POSITIONAL DATA

WGS 84, decimal degrees		
Latitude:	46.97255	
Longitude:	-123.87989	
WA state plane south (NAD 27, feet)		
East:	1,156,801	
North: 615,901		

EVALUATION LEVEL COMPLETED

	Report Logged
✓	Field Review
	Threshold Determination
	Expanded Threshold Determination
	Downstream Check
	Physical Survey

WATERBODY

Stream:	unnamed
Tributary To:	Hoquiam R 22.0137
WRIA:	22.0000
Fish Use:	No
FUP Criteria:	Other

Location / Directions:

Site Comments:

Water crossing is approximately 0.15 miles southeast of the K St/11th St intersection.

Drains City of Hoquiam K St pump station.

SPECIES POTENTIAL

	Sockeye	Sea Run Cutthroat
$\overline{\Box}$	Pink	Resident Trout
$\overline{\Box}$	Chum	Dolly/Bull Trout
	Chinook	Brook Trout
	Coho	Brown Trout
	Steelhead	

OWNER

Name:	Hoquiam
Гуре:	City

LEVEL A ANALYSIS

SUMMARY INFORMATION

Review Date:	7/19/2004
Field Crew:	Glore/Blatt
Barrier	
Passability (%)	
Method	
Repair Status	
Problem	

PLUNGE POOL DESCRIPTION

Length (m)	
OHW (m)	
Max Depth (m)	
CHANNEL DESCRIPTION	
Toe Width (m)	
Span/Toe Ratio	

POTENTIAL HABITAT GAIN

Survey Type:	
Length (m):	
Spawning (sq m)	
Rearing (sq m)	

CULVERT DESCRIPTION

Sequencer:	1.1
Shape	RND
Material	SST
Span (m)	0.41
Rise (m)	0.41
Length (m)	
Slope (%)	
Bed Material	No
Outfall Drop (m)	0.15
WDIC (m)	0.00
Apron	DS
Fill Depth (m)	0.50
Tidegate	Yes

Culvert Comments:

Rip rap pile at downstream end of apron.

