

FLH CULVERT ASSESSMENT FORM

Overall Rating

Good

Fair

Poor

Critical

Unknown

Performance Problems

Notes by: _____ Date: _____ Project: _____

Measurements by: _____ Time: _____

Site Information:

Facility Location: _____ Lat/Long _____

Milepost: _____ Project Station: _____ GPS Road CL Waypoint No. _____

Named waterway: _____ Direction of Flow: _____

Culvert Information:

No. of Barrels: _____ Barrel Length (approx): _____ Barrel Slope: Mild / Steep / _____

Skew (0 degrees = perpendicular to road): _____ Approx Cover: Upstream _____ Downstream _____

Barrel Shape (circle one) Circular Box Elliptical Pipe Arch Arch

Diameter: _____ / Span _____ x Rise _____

Pipe Material (circle one): Metal - Concrete / RCP - Corrugated Plastic - Smooth Plastic - Timber - Masonry

Appurtenances (circle one):

Upstream : Projecting / Mitered / Headwall / Headwall & Wingwalls / Flared End Section _____

Downstream : Projecting / Mitered / Headwall / Headwall & Wingwalls / Flared End Section _____

Flowing or standing water? N / Y Depth: _____ (ft) Est. Flow Velocity: _____ (ft/s) Possible AOP/fish passage? Y / N

Utilities Present (list)? Y / N _____ Possible historic features? Y / N Open Bottom? Y / N

Culvert Condition and Performance (circle / check all that apply and provide appropriate explanations below)

Category	Rating
Invert deterioration	<u>Good</u> Fair Poor Crit Unk N/A
Joints & Seams	Good <u>Fair</u> Poor Crit Unk N/A
Corrosion / Chemical	Good Fair Poor Crit <u>Unk</u> N/A
Cross-Section Deform	<u>Good</u> Fair Poor Crit Unk N/A
Cracking	Good Fair Poor Crit Unk <u>N/A</u>
Liner / Wall	Good <u>Fair</u> Poor Crit Unk N/A
Mortar and Masonry	Good Fair Poor Crit Unk <u>N/A</u>
Rot and Marine Borers	Good Fair Poor Crit Unk <u>N/A</u>
Headwall/Wingwall	Good Fair Poor Crit Unk <u>N/A</u>
Apron	Good Fair Poor Crit Unk <u>N/A</u>
Flared End Section	Good <u>Fair</u> Poor Crit Unk N/A
Pipe End	Good Fair Poor Crit Unk <u>N/A</u>
Scour Protection	Good <u>Fair</u> Poor Crit Unk N/A

Performance Problems Requiring Level 1 Action

- Debris/Veg Blockage > 1/3 of rise at inlet or outlet ☐
- Sediment Blockage 1/3 to 3/4 of rise at inlet/outlet ☐
- Buoyancy or Crushing-Related Inlet Failure ☐
- Poor Channel Alignment ☐
- Previous and/or Frequent Overtopping ☐
- Local Outlet Scour ☐

Performance Problems Requiring Level 2 Action

- Embankment Piping ☐
- Channel Degradation / Headcut (circle one) ☐
- Embankment Slope Instability ☐
- Sediment Blockage > 3/4 Rise at Inlet or Outlet ☐
- Sediment Blockage > 1/3 Rise Throughout Barrel ☐

Other Problems Requiring Level 2 Action

- No Access / Ends Totally Buried / Submerged ☐
- Aggressive Abrasion/Corrosion/Chemical (circle) ☐
- Exposed Footing (Open-Bottom Culvert Only) ☐

Photos (number): _____ Inlet _____ Outlet _____ Roadway (ahead) _____ Roadway (back) _____ View downstream

_____ View upstream Others: _____

Notes / Recommendations:



Bravo Environmental
 6705 NE 175th St
 Kenmore, Wa 98028
 Tel: 425-424-9000
 Fax: 425-424-9002
 E-mail:

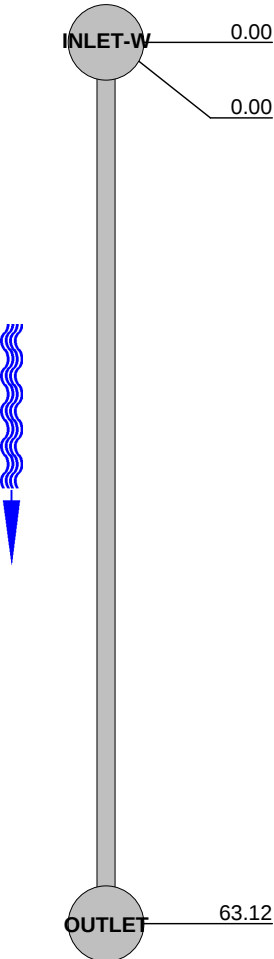
Inspection Report / Inspection: 1

Date 5/19/2011	P/O. No.	Weather Dry	Surveyor's Name JOEL vASEY	Pipe Segment Reference	Section No. 12
Certificate No. u-304-1198	Survey Customer	System Owner	Date Cleaned	Pre-Cleaning No Pre-Cleaning	Sewer Category

Street 153+25	Use of Sewer Stormwater	Upstream MH INLET-W
City Port Angeles	Drainage Area	Downstream MH OUTLET
Loc. details	Flow Control	Dir. of Survey Downstream
Location Code	Length surveyed 63.12 ft	Section Length 63.12 ft

Purpose of Survey Maintenance Related	Joint Length	24 inch
Year Laid	Dia./Height	Corrugated Metal Pipe
Year Rehabilitated	Material	
Tape / Media No. 1	Lining Method	

Add. Information :

1:165	Position	Observation	MPEG	Photo			
	0.00	Water Level, 5 %of cross sectional area					
	0.00	End of Pipe / INLET-W	00:00:00				
	63.12	End of Pipe / OUTLET	00:07:49	INLET-W_OUTLET103021_19 052011_A.JPG			
QSR	QMR	SPR	MPR	OPR	SPRI	MPRI	OPRI
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Inspection photos / Inspection: 1

City : Port Angeles	Street : 153+25	Date :	Pipe Segment Reference :	Section No : 12
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Photo: INLET-W_OUTLET103021_19052011_A.JPG, VCR No.: 1
63.12FT, End of Pipe