

Field Data Collection
(2009 Standard Inspection)

Company: BP Olympic Pipe Line Company

Unit: South

Pipe-to-Soil Potential Readings, Rectifiers and Mainline Valves (MLV)

Date	Location	Pipe (Volts) Power On	Casing (Volts)	Comments
5/13/2009	CMSP N PRR Rail Road crossing south of Renton Station	-1.633	-0.896	The casing was not shorted.
5/13/2009	MP 119, North Green River Mainline Valve (MLV)	-1.416	-0.446	The casing was not shorted. The MLV was partially operated.
5/13/2009	MP 119, South Green River MLV		-0.216	The MLV was inspected but not partially operated. The casing reading was acceptable.
5/13/2009	MLV at MP 121 West Valley Highway	-1.362	-0.512	The casing was not shorted. The MLV was partially operated.
5/13/2009	Weyerhaeuser property in Federal Way	-1.442	-0.396	The casing was not shorted.
5/13/2009	Tacoma Junction at MP 131	-1.284		The P/S potential reading on the MLV was acceptable. The DC outputs for rectifier #260 were: 23.88 V; 4.35 A.
5/13/2009	Pioneer Street MLV at MP 133	-1.378	-0.408	The casing was not shorted. The MLV was partially operated. This MLV will be converted to a MOV in 2010.
5/13/2009	Tacoma Pump Station at MP 142	-1.576 -2.339		The P/S reading on station upstream MLV was acceptable. This MLV was partially operated. The P/S reading on station downstream MLV was acceptable. The DC outputs for rectifier #290

				(for mainline) were: 19.27 V; 5.25 A. The DC outputs for rectifier #280 (for station) were: 58.9 V; 0.2 A.
5/13/2009	Suspended pipe over Centralia Power Plant canal at Nisqually Pines (MP 156)	-1.806		The coating condition of the exposed pipe appeared to be good. The P/S reading was acceptable.
5/13/2009	The Olympia Pump Station	-1.971 -1.387 -3.087		The P/S potential reading upstream of the station was acceptable. The P/S potential reading on station MOV was acceptable. The P/S potential reading on station piping was acceptable. The DC outputs for rectifier #310 (for mainline) were: 3.9 V; 0.24 A., and for rectifier #300 (for station) were: 56.2 V; 1.98 A.
5/13/2009	MLV at MP 186 in Napavine, Lewis County	-1.529	-0.165	Readings were acceptable. The casing was not shorted. The MLV is a MOV.
5/14/2009	MLV at MP 199 Smokey Valley Road, Toutle	-2.019	-0.528	The casing was not shorted. This MLV is a MOV. The DC outputs for rectifier #335 were: 24.79 V; 3.4 A
5/14/2009	Castle Rock Pump Station	-1.438		The P/S potential for block valve on the incoming line was acceptable. The rectifier DC outputs for rectifier #340 (for mainline) were: 9.45 V; 3.3 A, and for rectifier #342 were: 43.6 V; 4.69 A
5/14/2009	MLV at MP 217	-1.887		The P/S potential reading was acceptable. The MLV is a MOV.
5/14/2009	Kalama River Road MLV at MP 225			The MLV is a MOV. The station is well maintained. The DC outputs for rectifier #345 were: 19.13 V; 0.85 A
5/14/2009	Woodland MLV at MP 234	-1.635	-0.532	The casing was not shorted. The MLV is a MOV.
5/14/2009	MLV at MP 239			The valve station was inspected. The MLV is a MOV.
5/14/2009	CP test station at NE 179 th Street in Ridgefield, MP 248	-1.376	-0.322	The casing was not shorted.
5/14/2009	MLV at MP 248 in Ridgefield			The MLV is a MOV. The MLV was recently converted from a manual

				valve to a MOV.
5/14/2009	Vancouver Junction	-1.271	-0.464	The casing located outside of the junction was not shorted. The DC outputs for rectifier #357 were: 5.63 V; 0.32 A. This junction is the take-off point for the Vancouver lateral and it is well maintained.