

# ALBERTA TRANSPORTATION PEACE REGION (PEACE RIVER / HIGH LEVEL) INSTRUMENTATION MONITORING RESULTS

## FALL 2012

# SECTION C

## SITE PH47: HWY 690:02, DEADWOOD SLIDE

#### 1. OBSERVATIONS

### **1.1** Field Program and Instrumentation Status

Three standpipe piezometers (SP10-1, SP10-3, and SP10-5) and two vibrating wire piezometers (VW10-1 and VW10-2) were monitored at the Hwy 690:02, Deadwood Slide site on October 1, 2012 by Mr. Chad Gray, C.E.T. and Ms. Jessica Pryer, T.T., of Thurber Engineering Ltd. (Thurber).

A Sinco dip meter was used to read the standpipe piezometers. The vibrating wire piezometers were read using a GEO-KON GK-404 digital VW data recorder device.

### 2. INTERPRETATION

### 2.1 Interpretation of Monitoring Results

The water level decreased in standpipe piezometers SP10-1 and SP10-5 by 0.16 m and 0.76 m, respectively, since the previous reading in spring 2012. The water level in SP10-3 has increased by 0.57 m since the previous reading in spring 2012. The results of the standpipe piezometers are summarized in Table PH47-1.



Since the previous reading in spring 2012, the water levels in vibrating wire piezometers VW10-1 and VW10-2 have decreased by 0.10 m and 0.33 m, respectively. Table PH47-2 summarizes the vibrating wire piezometer readings.

### 3. **RECOMMENDATIONS**

#### 3.1 Future Work

The instruments should be read again during the spring 2013 program.

#### 3.2 Instrumentation Repairs

No Instrumentation repairs are required at this time.



#### TABLE PH47-1 FALL 2012 – DEADWOOD SLIDE STANDPIPE PIEZOMETERS INSTRUMENTATION READING SUMMARY

Date Monitored: October 1, 2012

INSTRUMENT #	DATE INITIALIZED	TIP DEPTH (m)	GROUND ELEV. (m)	CURRENT STATUS	MAXIMUM WATER LEVEL BGS (m)	MEASURED WATER LEVEL BGS (m)	PREVIOUS READING (m)	CHANGE IN WATER LEVEL SINCE PREVIOUS READING (m)
SP10-1	November 4, 2010	9.66	559.54	Active	4.60 on November 4, 2010	4.80	4.64	-0.16
SP10-3	November 4, 2010	8.90	565.44	Active	1.14 on May 27, 2011	1.89	2.46	0.57
SP10-5	April 27, 2010	2.92	561.27	Active	0.63 on July 27, 2011	2.09	1.33	-0.76

Figure PH47-1 in section D provides a sketch of the approximate locations of the monitoring instrumentation for this site.

#### TABLE PH47-2 FALL 2012 – DEADWOOD SLIDE VIBRATING WIRE PIEZOMETERS INSTRUMENTATION READING SUMMARY

Date Monitored: October 1, 2012

INSTRUMENT	DATE INITIALIZED	TIP ELEV. (m)	GROUND ELEV. (m)	CURRENT STATUS	MAXIMUM GROUNDWATER ELEVATION (m)	GROUNDWATER ELEV. (m) (FALL 2012)	GROUNDWATER ELEV. (m) (SPRING 2012)	CHANGE IN WATER LEVEL SINCE PREVIOUS READING (m)
VW10-1 (100D10918)	April 27, 2011	553.50	562.00	Operational	560.49 m on June 11, 2012 (1.51 mBGS)	560.39 (1.61 mBGS)	560.49 (1.51 mBGS)	-0.10
VW10-2 (100D10917)	April 27, 2011	555.17	560.96	Operational	558.89 m on May 27, 2011 (2.07 mBGS)	558.41 (2.55 mBGS)	558.74 (2.22 mBGS)	-0.33

Figure PH47-1 in section D provides a sketch of the approximate locations of the monitoring instrumentation for this site.

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