KENAI PENINSULA BOROUGH

Road Service Area

47140 E. Poppy Lane • Soldotna, Alaska 99669
Toll-free within the Borough: 1-800-478-4427
PHONE: (907) 262-4427 • **FAX**: (907) 262-6090
www.borough.kenai.ak.us

Mike Navarre
BOROUGH MAYOR

MEMORANDUM

TO: Paul Ostrander, KPB Chief of Staff

FROM: Henry Knackstedt, RSA Engineer HK

DATE: May 4, 2015

SUBJECT: K-Beach Area Water Table Observations

On May 1, 2015, several shallow wells in the K-Beach area were accessed and static water measurements made. The static water elevations were then compared to bottom of the on-site soil absorption systems. Static water levels of shallow wells are typically reflective of groundwater table elevation. On May 3, 2015, several test holes were excavated that confirmed the water table correlation with the observed static elevation measurements. An additional test hole was also excavated near Buoy Avenue north of Anchor Circle to identify soil conditions and water table in that area.

The following table includes the depth to groundwater at the various locations.

Parcel #	General Location	Depth to Groundwater
xxxxx	Patrick Drive, East of Eastway Road	10.9'
xxxxx	Short Lane & Green Forest Drive Intersection	10.2'
xxxxx	Ebb Tide Drive, South of Kalgin Dr. Intersection	8.8'
xxxxx	Bore Tide Drive, North of Karluk Ave. Intersection	9.9'
xxxxx	Buoy Avenue, North of Anchor Circle	11.0' Seeps

The evaluation determined that all soil absorption systems measured were above the groundwater table and appeared to be functioning adequately. The water table in the test hole excavations appeared to be a little below the well static levels. However, the soils at depth were moist, very fine sands to sandy silts weeping water at elevations close to the well static water levels. Taking into account the weeping soils, the well static water elevations appear to be a close approximation to the groundwater table.

Based on recent measurements, ADEC documentation on wastewater systems, and information provided by local residents, it appears the groundwater table in the area has dropped substantially since the 2013 flood and is approaching historic norms.

END OF MEMO