



FACT SHEET
BENTLEY FAMILY CHARITABLE TRUST
TAX LOT 201
FAIRBANKS, ALASKA

JANUARY 2003

What's New?

Numerous site characterization and cleanup activities have occurred since the publication of the last fact sheet in January 2002. Union Bank of California, acting as Co-Trustee of the Bentley Family Charitable Trust (the landowner), has continued its pro-active efforts in cooperation with the Alaska Department of Environmental Conservation (ADEC). Information about the site's history and contamination issues may be found in ADEC's January 2002 fact sheet.

The purpose of this fact sheet is to provide an updated synopsis of the major site characterization and cleanup activities completed, as well as proposed activities for the coming year. These include: sampling of two residential irrigation wells (i.e., private wells used for gardening purposes only), an on-site soil gas survey, seasonal ground water sampling events, installing additional on- and off-site ground water monitoring wells, starting soil and ground water remediation on the northeast portion of the property, and continued delineation of the off-site ground water contaminant plume.

Private Irrigation Wells

Two private residential wells used for gardening purposes (i.e., irrigation wells) were sampled in fall 2002. The wells are located at the north end of Harriet and Anna Avenues and west of Well Point WP-1 (See Figure 1). In 2001, trichloroethene (TCE) was detected in WP-1 at 11.2 parts per billion (ppb). For reference, the safe drinking water level for TCE is 5 ppb.

The water from the irrigation wells contained low concentration levels of TCE averaging close to 10 ppb. These results suggest that the TCE ground water contamination extends west of Harriet Avenue.

The owners of the irrigation wells were advised not to use the wells as a source of drinking water since the TCE concentrations levels are above the safe drinking water standard. A limited risk evaluation performed by ADEC indicated that the use of the well water for irrigation purposes did not pose a significant risk.

The information received from Golden Heart Utilities, the public water utility, indicates that occupied properties west-northwest of Anna Avenue and North of College Road are serviced by the water utility. Safe drinking water is supplied by the utility to this area. Therefore, there is no need to consume groundwater from private wells in this area.

As a precaution, ADEC has requested that if there are residences or businesses that use private water wells for other than drinking water purposes, they contact ADEC.

On-site Soil Gas Survey

A series of passive soil gas collectors were placed near the former locations of the Surfcote, Double Jointing & Coating, and Snoopy Repair facilities (See Figure 2). Analysis of the soil gas results helped identify probable source areas and desirable locations for additional ground water monitoring and remediation wells. The soil gas results and the recent ground water data confirm that there are several TCE source areas on the property.

Seasonal Ground Water Sampling Events – Installation of Additional Wells

A series of on- and off-site ground water monitoring wells were sampled in the spring and fall 2002. Additional on-site monitoring wells were installed following the soil gas survey. The on-site monitoring well data were used to measure contaminant concentration levels, identify the probable location of source areas, and estimate the seasonal ground water flow direction.

Overall, the concentration levels appear to fluctuate without a discernible trend. The groundwater flow direction across the site is generally westward.

A new monitoring well (MW-56) was installed at the south end of Harriet Avenue near College Road and west of Well Point WP-3 (See Figure 1). In 2001, TCE was detected in WP-3 at 130 ppb. TCE was detected in MW-56 at 48 ppb. This suggests that the TCE ground water contamination extends to the west of Harriet Avenue, and possibly south of College Road.

Cleanup Activities

Cleanup of soil and groundwater has started at the former Surfcote location that is situated on the northeast portion of the site (See Figure 1). An Air Sparging (AS)/Soil Vapor Extraction (SVE) was installed in late fall 2002. The system will operate over the winter. A generic description of an AS/SVE system is provided in Figure 3.

What's Ahead in 2003?

With the detection of TCE in the irrigation wells and MW-56, additional delineation of the TCE ground water plume is necessary. The investigation will include the installation of additional on- and off-site well points, and the eventual installation of permanent monitoring wells. This will begin in late spring 2003 and continue over the summer as necessary.

The AS/SVE system will continue to operate through the summer with periodic ground water sampling to measure its effectiveness. The overall system's effectiveness will be evaluated in fall 2003.

An additional soil gas survey will be conducted in early summer after the ground thaws to further delineate an on-site source area.

Remediation of other source areas may begin in late 2003.

If you have any comments or questions, please contact the ADEC Project Manger, Mr. Douglas Bauer, at (907) 451-2192 or at Doug_Bauer@envircon.state.ak.us.