Anvik Brownfield Tribal Response Program
Site: AVEC Tank Farm

Date: 7-24-06, 12-5-06

Name of Community: Anvik

Individual completing form:

Donald Richardson (7-24-06)
Malinda Chase (12-5-06, 12-6-06)
Shannon Chase-Jensen (12-07-06)

Community Member(s) Present: Donald Richardson and Malinda Chase

INFORMATION ON SITE OWNERSHIP AND USE

1. What is the official or common name of the site, property or building?

Former AVEC Tank Farm or old AVEC site.

2. What is the address of the property or building?

The site is located on the right side approximately half-way down Sawyer Road, which is the road to the Anvik bulk fuel tank farm. The site is about 350' south of the Anvik River.

3. Who is the current owner or operator of the site or building? Include contact information: phone, mailing address, and email, if available.

Current land owner:
Deloy Ges, Inc.
P.O. Box 150
Anvik, AK 99558
907-663-6396
Email: deloyges@anviktribal.net

Former operator:
Alaska Village Electric Cooperative
ATTEN: Brent Petrie
4831 Eagle Street
Anchorage, AK 99501
907-561-1818
1-800-478-1818
Email: bpetrie@avec.org

4. Is this site in the DEC contaminated site database? If so, attach a copy of the database report.

Yes, attached.

5. List any background documents or other resources that you have or know about, for the site or incident in question, and attach copies if available (e.g. DEC contaminated sites or LUST database summary).

AVEC may have background documents according to Brent Petrie, AVEC's Manager of Community Development and Key Accounts. AVEC will be review archived files on the site for documents related to clean-up and/or reclamation of the site (phone conversation b/w B.Petrie and M.Chase, 12-5-06).

6. Site Sketch: Sketch the site in the space below. Alternatively, attach a site map to the back of the form. The sketch should include the following information:

_ north arrow
_ property line locations
_ locations of any buildings or other structures
_ locations of any known historical spills
_ location and size of any holes (excavations)
_ depth to groundwater/seasonal high groundwater
_ location and size of any piles of dug-up soil (soil stockpiles) signs of disturbed vegetation or surface staining
_ rough bar scale (feet or meters)
_ locations of all tanks, drums and piping
_ locations of any water wells
_ locations of any observed contamination

7. If there is a building on the land, when was it built?

There currently is no building on the site, however, there is a vertical BIA style tank at the site inside an unlined containment basin made of a 2-3' high gravel dike that is topped with old sandbags (DEC contaminated site database).

The area surrounding the site is occasionally used as a staging or storage area for materials or equipment off-loaded from the annual barge deliveries, therefore there are stored items around the site.

8. What is the approximate size of the land or property?

The site is approximately 150 x 300 ft.

9. Describe the site's current use. Is the site abandoned, under-utilized, or fully utilized?

The site is abandoned by AVEC and under-utilized by the community of Anvik.

10. Explain the known history of the site. Describe how the site has been used over time, if at all.

The site is a former generator and tank farm site established by AVEC. It was the site of the power plant since early 1970s. Before the power plant was located there, the area was part of the village area heavily used during the mission era through the 1970s, before Anvik received running water that allowed residents to move farther away from the river bank area.

11. Is drinking water or water used for other purposes (e.g., washing, showering, commercial activities) available at the site?

No, there are no drinking water facilities on the site, but there is one home located to the southwest of the property approximately 200 feet away, on a slightly downhill from the AVEC sight.

12. If water is available, what is the source? (e.g., groundwater, surface water, treated water)

No water is available on-site.

13. What is the depth to groundwater at the site? (At some sites this may be difficult to determine, but it also may be well known.)

Groundwater is estimated to be at 20 feet deep.

14. Describe the site in terms of ground cover, fill material, and subsurface soil conditions. (e.g., vegetated—trees, tundra, grass; building pad—gravel, other material; soil, silt, sand, gravel river deposits, bedrock, etc.).

The old tank farm area that is a part of the prior power plant site is in a bermed and unlined dike. The surrounding area where the generator building stood is covered by young birch and willow trees, and grass with dirt. Given this site is 350 feet from the river and close to a nearby slough, it is likely the underlying ground material is sand or silt.

15. Are residential properties nearby?

Yes, approximately 200 feet away.

16. If residential properties are close to the site, what is the water usage (drinking and showers)?

The water is used domestically for showers, household needs and drinking water.

17. Are these residential properties built on or above grade (e.g. do they have foundations, with or without basements or crawl spaces, or are they built on pilings)?

The one residential property nearby is owned by Anvik resident Dennis Sawyer. The cabin is built on a log foundation without a basement, crawl space or pilings.

18. What are the local beliefs, traditional stories, or traditional uses associated with the site, if you are comfortable sharing this information?

The area where the old AVEC power plant and accompanying tank farm is located at is part of the area where the village began to settled during the Episcopal Mission era in the late 1800s through the 1970s. This area is along the south bank of the Anvik River in front of the village. It is likely residents formerly settled in this area since it was close to the river for needed water.

19. Are subsistence activities carried on at or near the site?

The site is located along Sawyer Road, the main road used to access the Anvik bulk fuel tank farm or gas station. A residential garden is located down grade, approximately 200 feet away from the site. Slightly further away, approximately 300 feet away is a smokehouse where another resident cuts and dries fish for personal consumption.

20. Can subsistence resources, such as berries, fish, or game, be affected by possible contamination at the site?

Wildlife such as birds or moose can access the site. The site is upgrade from a nearby slough so some fish and berries could be affected also.

21. Are children or domestic or wild animals likely to be attracted to the site (i.e., does the site or aspects of the site pose an "attractive nuisance")?

Yes, children and youth could be attracted to the site, especially those interested in leaving graffiti but the area is not used much by foot traffic so it is likely there would be minimal attraction by the children or others.

ENVIRONMENTAL CONDITIONS

1. Is there a perceived health concern associated with the site, and if so, what is the concern?

Yes the perceived health concern involves speculation about the presence of diesel, lubricants, solvents, possible PCB's, asbestos and lead at the site.

2. Please describe any known or potential sources of contamination (e.g., buried or aboveground storage tanks, drums, dispensers, pipelines, hoses, dump sites, transformers) and how they got there.

Since the site is formerly a tank farm and power plant the sources of potential contamination include above-ground storage tanks, drums, pipelines, hoses and transformers that AVEC used when the power plant was active.

3. If you know of a specific spill or environmental incident, when was it and who was responsible for it?

(Reported by DJ) AVEC is responsible for a large diesel spill in 1991 and continuous contamination by solvents and lube oil over approximately 25 years.

4. Describe the chemical that may have been spilled or dumped. (e.g., diesel, gasoline, cleaners, solvent, etc.) Provide as much detail as possible; if drums are present, read labels, if affixed, to obtain the most accurate information.

DEC reports the presence of diesel and gasoline in soil samples collected. There area does smell of diesel fuel oil.

5. If an incident occurred, was any cleanup done at the time? To what extent, if known?

The extent of clean-up on any incident is unknown.

6. Do you know of anyone who may have additional information about the incident and what was done?

AVEC: Pete Neuberg
Brent Petrie (see attached email message dated 12-5-06)
Ken Chase

7. Was the DEC, EPA, or any other agency involved with this issue at any time in the past? (It is possible that there is a record of the incident and any cleanup.)

The AVEC Tank Farm is listed in DEC's Contaminated Sites Database, although the site report does not cite any specific incident or spill.

8. Where did the chemical go after it was spilled (e.g., ground surface, underground, stream or lake, grass or other vegetation, air)?

Soil samples collected from the site showed diesel and gasoline in the test holes made; it is not known where and to what extent to the chemicals migrated.

9. Estimate the size of the spill, if known, or the number of events that may have led to the environmental problem.

(Reported by DJ) Approximately 20,000 diesel gallons in 91', unknown quantities spilled over 25 years

In an interview with local resident, Ken Chase, on December 7, 2006, he confirmed that during the 1991 flood, AVEC had a tank that tipped over due to the flooding. The diesel that was held in that tank spilled into the water and never had direct contact with the ground, therefore it is not known whether or not any ground contamination occurred during that spill. The exact amount of

diesel spilled was never determined, but it is thought that the amount could have been up to 20,000, which the tank was capable of holding. Previous employees have denied any spills other than the one caused by the 1991 flood.

Ken estimates that about 200 gallons a year would leak out of the pipeline between AVEC, the Old School, and the City's tanks (PHS). There were apparently 2 leaks coming from the pipeline, the one that was previously mentioned and another leak that occurred every time the barge refueled AVEC. This one was located right near John Collins' old cabin. No attempts were made to correct or clean up the leaks.

POTENTIAL CLEANUP AND RE-USE

1. Does the community or land owner have a desire to clean up or remediate the site for future redevelopment or re-use? Provide a brief discussion of the redevelopment potential of the property and importance of the property to the community.

Yes, Deloy Ges Corporation and the community want to clean-up and reuse the site. Ideas for future land reuse are outlined in Anvik's Comprehensive Community Plan 2005-2010, which are included in the "Physical Setting and Future Land Use Section" (p. 50-54). One of the main ideas for the area is to establish it more formally as the staging area for materials/equipment arriving on the annual barge deliveries.

2. How will the community or public benefit from a more in-depth assessment of this site (an assessment that includes site testing)?

The community will benefit from a more in-depth assessment that will determine what contaminants are present and the level of contaminants at the site. In turn, this will facilitate the development of a site clean-up action plan.

3. Does the community have an adopted community plan that names goals for the re-use or redevelopment of this or any other site?

The Anvik Comprehensive Community Plan 2005-2010, which is locally adopted by the Anvik Tribal Council, Deloy Ges, Inc., and the City of Anvik identifies future land use issue and ideas for development and reuse of local lands and sites.

4. Is there a strong community commitment, either financially or through commitment of other resources to assist with further assessment or cleanup of the site or building?

12-6-06: The community of Anvik is aware of the site however they are not knowledgeable of ways to address and clean-up contaminate sites. Once the Anvik Brownfield Tribal Response Program begins community outreach by implementing the Community Involvement Plan developed by the program, the level of community commitment to address and clean-up local sites will unfold.

5. Is back-haul barging or shipping of contaminated materials possible in the community?

Yes, Anvik Tribal Council Environmental Program has successfully partnered with the Yukon River Inter-Tribal Watershed Council during the summer 2005 and 2006 barge seasons to back-haul items from the community.