

BGES, INC.

TRACT A-2B, CENTER POINT SUBDIVISION, PHASE 4 WASILLA, ALASKA

PHASE I ENVIRONMENTAL SITE ASSESSMENT

MARCH 2020

Submitted to:

Amanda Matson Cook Inlet Housing Authority 3510 Spenard Road, Suite 100 Anchorage, AK 99503

Submitted by:

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1.0 INTRODUCTION

BGES, Inc. (BGES) was retained by Cook Inlet Housing Association (CIHA) to conduct a Phase I Environmental Site Assessment (ESA) of the property located at Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, Alaska (hereafter referred to as the subject property). The purpose of this assessment was to evaluate the potential for environmental impacts to the subject property from potential on-site or off-site sources, and to assess related environmental conditions at the property.

This report presents the results of our findings. Aerial photographs of the subject property are included as figures at the end of the report text. Recent photographs of the property are included in Appendix A; information from Alaska Department of Environmental Conservation (ADEC) databases is included in Appendix B; an environmental questionnaire completed by the owner of the subject property is included in Appendix C; and a copy of our proposal is included in Appendix D.

This Phase I ESA was performed during February and March of 2020 in accordance with our proposal dated February 24, 2020. The Phase I ESA was conducted in general accordance with American Society for Testing Materials (ASTM) Standard E 1527-13 and the local standards of practice. The assumptions made while performing this Phase I ESA and the limitations of our scope of work are detailed in Section 6.0 (Exclusions, Considerations, and Qualifications) of this report. Exceptions to the ASTM-prescribed procedures include the following:

- The ASTM specifies that the Federal Resource Conservation and Recovery Act (RCRA) generators list be researched. For this assessment, we researched the U.S. EPA Enviromapper database.
- The U.S. EPA Federal List of Institutional Controls (IC) sites database is currently undergoing reconfiguration. As such, site reports are not currently searchable by location; however, it is our opinion that sites which have Federal ICs in place are likely to be listed in the ADEC Contaminated Sites database as well. Therefore, the inability to search the Federal IC sites database does not constitute a data gap that materially affects our interpretation of the environmental condition of the subject property.
- The ASTM standard practice minimum search distance for the Federal Emergency Response Notification System (ERNS) list is just for the subject property. For this assessment, we attempted to utilize the U.S. National Response Center (NRC) database, which has replaced the ERNS list; however, at the time of preparation of this report, the NRC database was unavailable in a format that was reasonably-ascertainable for review. The Center for Effective Government, which maintains a third-party database referred to as the Right to Know Network (RTKNet), compiles the NRC records

in a more accessible format, which was reviewed for the subject property and adjoining properties.

• An evaluation of the presence of wetlands on the subject property was performed, although the ASTM does not require this information.

Our Phase I ESA included a combination of research, interviews, and site reconnaissance. Based on the conditions observed during our site activities and our research, no recognized environmental conditions with respect to the subject property were identified.

2.0 SITE DESCRIPTION

The property consists of one irregularly-shaped parcel located to the north of the South Knik Goose Bay Road in Wasilla, Alaska (Figure 1). According to the Matanuska Susitna Bureau (MSB) property information database, the subject property parcel is listed as being approximately 7.29 acres in size. The properties are listed as being owned by Valley Hospital Association, and the use of the property is listed as "Land and Miscellaneous".

2.1 Legal Description

The legal description of the subject property is Tract A-2B, Center Point Subdivision, Phase 4. The subject property is located in the Southeast Quarter of the Northeast Quarter, Section 16, Township 17 North, Range 1 West, Seward Meridian, Alaska.

2.2 Geologic and Surface Description

According to maps published in the United States Geological Survey National Geologic Map Database, prepared in 1981, the surficial geology at the subject property is characterized as "abandoned meltwater channel alluvium", "elongated channel fillings of well-sorted pebble-cobble gravel and gravelly medium-coarse sand with rare to occasional boulders laid down by former streams from melting glacial ice". The surficial geology of the surrounding area was (mostly) characterized as "abandoned meltwater channel alluvium". During the site reconnaissance, it was observed that the subject property is moderately flat.

According to flood maps published by the United States Federal Emergency Management Agency on msc.fema.gov, last updated in 1985, the subject property was not located within 100-year or 500-year floodplains. No wetlands were located on the subject property, according to the U.S. Fish and Wildlife Service Wetlands Online Mapper. The nearest wetlands identified were freshwater/shrub wetland located approximately 0.07 mile to the northwest and an adjacent freshwater emergent located approximately 0.2 mile to the subject property. A strip of freshwater emergent wetland along Cottonwood Creek was approximately 0.13 mile to the south of the subject property. The subject property is not located

within the Alaska Coastal Zone Management Area.

2.3 Vicinity Description

The area surrounding the subject property was comprised of a mixture of multi-family and single-family residential properties to the northwest, and undeveloped land to the east. The subject property was bordered by Knik-Goose Bay Road to the southeast, and a dirt road was located to the southwest and north of the subject property. A senior center was located to the northeast of the subject property.

2.4 Past and Current Usage

According to the MSB, both properties are listed as being currently owned by the Valley Hospital Association. The Hill-Donnelly Directories (Directories) were reviewed to evaluate the history of occupancy of addresses in the general vicinity of the subject property. The occupancies of the following streets were reviewed: Knik-Goose Bay Road, South Century Circle, Hardrock Circle, South Fern Street, and Frank Smith Way. These roadways were selected because of their proximity to the subject property.

The Directories were generally reviewed in 5-year intervals, starting in 1980. No addresses that were attributable to the subject property were found in any of the Directories that were reviewed. The complete results of the Directories review are listed in Table 1.

2.5 Review of Aerial Photographs

Aerial photographs of the vicinity of the subject property taken in 1949, 1957, 1973, 1984, 1990, 2002, 2011, and 2018 were briefly reviewed. The 1973, 2002, 2011, and 2018 aerial photographs were chosen to print and are included as Figures 2, 3, 4, and 5; respectively.

The August 14, 1949 aerial photograph showed the subject property as containing thick, coniferous vegetation, with the exception of what appears to be a cleared wedge-shaped strip of land. Knik-Goose Bay Road was present to the southeast of the subject property and appeared to be unpaved. A cleared powerline path bordered the eastern side of the subject property. The area to the south of Knik-Goose Bay Road had been cleared of vegetation.

The March 7, 1957 aerial photograph showed the vicinity of the subject property as being similar in appearance to what was noted in the 1949 aerial photograph.

The August 15, 1973 aerial photograph, included in Figure 2, showed the vicinity of the subject property as being similar in appearance to what was noted in the 1957 aerial photograph. A cleared powerline easement bordered the northern side of the subject property.

The August 1984 aerial photograph showed that the subject property was still undeveloped and contained coniferous forest. Additional roads had been constructed in the vicinity of the subject property.

The August 12, 1990 aerial photograph showed the subject property and the surrounding land to the north and east as being forested. Knik-Goose Bay Road appeared to have been paved since the previous aerial photograph was taken.

The August 3, 2002 aerial photograph, included in Figure 3, showed most of the subject property and the surrounding land to the north and west as being still forested. A small structure, possibly a cabin, was located in the northeast portion of the subject property. A senior center had been constructed to the northeast of the subject property.

The April 14, 2011 aerial photograph, included as Figure 4, showed the subject property as having been cleared of vegetation since the previous aerial photograph. Multiple dump trucks and other construction vehicles were located on the subject property, and approximately 12 soil stockpiles were present. Conex containers were located in the northern portion of the subject property. Two structures were visible in the northeast portion of the subject property. The Center Point Subdivision had been extended to include lots just north of the subject property. An empty cul-de-sac was located to the north of the subject property. The land to the northwest and west of the subject property had been cleared since the previous photograph was taken.

The July 5, 2018 aerial photograph, included as Figure 5, showed the subject property as having been cleared of soil stockpiles and construction vehicles. The two structures were no longer present, and a building foundation was observed in the previous location of a former structure. The Center Point Subdivision had been extended to include lots just north of the subject property. The cul-de-sac to the north of the subject property had been completed and multiple residence had been constructed. The unpaved road that bordered the subject property to the west, had been extended to the north into a cul-de-sac. Some vegetation had grown back on the subject property and on the properties to the northwest and west.

3.0 RECORDS REVIEW

BGES conducted a review of numerous records and databases to research the potential for known contamination on or near the subject property. The following sections describe the results of these reviews.

3.1 U.S. EPA National Priority List (NPL)

The EPA's NPL, updated as of February 10, 2020, was reviewed on February 28, 2020. No sites were

listed on the NPL for the Matanuska-Susitna Borough area.

3.2 U.S. EPA Delisted NPL Sites

The EPA's delisted NPL sites database, updated as of February 10, 2020, was reviewed on February 28, 2020. No Delisted NPL sites were listed for the Matanuska-Susitna Borough area.

3.3 U.S. EPA Federal List of IC Sites

An attempt to review the EPA's Federal List of IC Sites was made on February 28, 2020. This database was not available, as the EPA websites were undergoing reconfiguration at the time of preparation of this Phase I ESA.

3.4 U.S. EPA Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) List

The U.S. EPA CERCLIS list, which was retired in October of 2013, was replaced by the Superfund Enterprise Management System (SEMS) database. The SEMS database, which was last updated on November 25, 2019, was reviewed on February 28, 2020. No sites listed in this database were located within ¹/₂ mile of the subject property.

3.5 U.S. EPA CERCLIS No Further Remedial Action Planned (NFRAP) List

The U.S. EPA CERCLIS NFRAP list was retired in October of 2013 and was replaced by the SEMS database. The SEMS database, which was last updated on November 25, 2019, was reviewed on February 28, 2020. No sites listed in this database were located within ½ mile of the subject property.

3.6 U.S. EPA RCRA Corrective Action Detail Report (CORRACTS)

The U.S. EPA RCRA CORRACTS for Alaska, which is updated on a daily basis, was reviewed on February 28, 2020. No sites were identified within 1 mile of the subject property.

3.7 U.S. EPA RCRA Non-CORRACTS Treatment, Storage and Disposal (TSD) Facilities

The U.S. EPA RCRA Non-CORRACTS TSD Facilities for Alaska, which is updated regularly, was reviewed on February 28, 2020. No sites were listed within ¹/₂ mile of the subject property.

3.8 ADEC Registered Underground Storage Tank (UST) Database

The ADEC Registered UST database, which is updated regularly, was reviewed on February 28, 2020. The subject property and adjacent properties were not listed in this database.

3.9 ADEC Contaminated Sites Database

The ADEC Contaminated Sites Database, which is updated regularly, was reviewed on February 28, 2020; and listed one contaminated site as being located within ½ mile of the subject property.

One contaminated site was listed as being "Active" by the ADEC, indicating that further characterization and/or remediation of contaminated media are required at this site. The Knik Texaco site (Site 1 on Figure 6) is located approximately 0.25 mile southwest of the subject property, at its closest point. Three gasoline USTs and one diesel UST and their product lines were removed from the site in 1994 during a facility upgrade. A site assessment was conducted in 1994 and contamination was identified at 10 feet below grade (bg) in both soil and groundwater. Groundwater reportedly flows to the southwest at this site; indicating that the site is located generally side-gradient to downgradient of the subject property (with respect to the potential for contaminant migration through soil, groundwater, or soil vapor), it is our opinion that there is a reduced potential for adverse environmental impact to the subject property stemming from contamination at this site; and it is not considered to be a recognized environmental condition with respect to the subject property.

Additional information pertaining to these sites is included in Table 2 and Appendix B, and the locations of these sites are represented on Figure 4.

3.10 ADEC Statewide Oil and Hazardous Substance Spills Database

The ADEC Statewide Oil and Hazardous Substance Spills Database contains records concerning spills of oils and other hazardous substances that have occurred throughout Alaska. Records of spills that have occurred since July of 1995 are included in this database. The database is updated regularly and was reviewed on February 28, 2020. No ADEC Spills events were documented as having occurred within ¹/₄ mile of the subject property.

3.11 State of Alaska Voluntary Cleanup and Brownfields Sites

The State of Alaska does not maintain specific databases of voluntary cleanup sites or Brownfields sites that are not also included within the ADEC Contaminated Sites database. This database was reviewed, and the results of that review are discussed in Section 3.9, above.

3.12 NRC

The ERNS, which is operated through the NRC and is managed as a division of the United States Coast

Guard (USCG), maintains records of releases of toxic and hazardous substances in a format that is not reasonably ascertainable for review. However, the Center for Effective Government maintains a third-party database, which is referred to as the RTKNet, that compiles the NRC records in a more efficient format, and this database was reviewed. A review of incidents which were reported to ERNS and NRC, which occurred in the State of Alaska from 1982 through mid-2018, was conducted on February 28, 2020. No incidents were identified as occurring on the subject property or adjoining properties.

3.13 U.S. EPA Envirofacts/Enviromapper

In response to the Emergency Planning and Community Right to Know Act (EPCRA) [42 U.S.C. 11001 et seq. (1986)], also known as Title III of Superfund Amendments and Reauthorization Act (SARA), EPA maintains a database of hazardous material transporters, storage facilities, solid waste, air, and water pollution generators. The database, which is updated regularly, was reviewed on February 28, 2020 for the subject property and adjoining properties. The sites identified in the Enviromapper database are operated by transporters or generators of hazardous waste, used oil, etc.; and these listings do not indicate the presence or absence of contamination within the surface or subsurface at these sites. The subject property and adjoining properties were not listed in this database.

3.14 U.S. EPA Toxic Release Inventory (TRI) Sites Database

The TRI is a publicly-available EPA database that contains information on toxic chemical releases and other waste management activities reported annually by certain industry groups as well as federal facilities. This inventory was established under the EPCRA and was expanded by the Pollution Prevention Act of 1990. The TRI sites database was reviewed on February 28, 2020 for any sites located within ¹/₄ mile of the subject property. The TRI database includes information for the years 1988 to 2018, and no sites were listed as being located within ¹/₄ mile of the subject property.

3.15 Alaska State List of Landfills and Solid Waste Facilities

The ADEC Division of Environmental Health, Solid Waste Management list of currently and formerly permitted facilities, which was last updated on February 2, 2017, was reviewed on February 28, 2020. No landfills or solid waste facilities were listed as being located within ½ mile of the subject property.

3.16 Alaska Department of Natural Resources (DNR) Recorder's Office Records Database

The Alaska DNR Recorder's Office Records Database, which is updated regularly, was reviewed on February 28, 2020 for records of environmental liens against the subject property. No records of any environmental liens against the subject property were identified during our search of this database.

3.17 Sanborn Fire Maps

No Sanborn Fire Maps that depicted the area of the subject property could be located during the preparation of this Phase I ESA.

3.18 Shannon and Wilson (S&W) Phase I and Limited Phase II ESA, Dated March 2013

During a Phase I Environmental Site Assessment (ESA) performed in 2013, multiple recognized environmental conditions were identified by S&W at the subject property. On the subject property, general equipment and vehicle maintenance was conducted. Surface staining was reportedly observed. Four 55-gallon drums were located on the subject property near a connex storage container to the west of the former structures. The property had been used to store discarded materials that may be classified as solid waste.

Surface staining had been observed in some locations on the subject property. They identified that an onsite leach field and septic tank could post risks if chemicals had been introduced into the system. The two structures that were located in the northeast portion of the property at the time of their reconnaissance were utilizing heating oil, which was stored in aboveground storage tanks (ASTs). The Knik Texaco Service station to the southwest had been identified by S&W as a recognized environmental condition to the property that comprised the subject of their Phase I ESA (a much larger parcel of land than that which comprises the current subject property and which included the land adjacent to the service station). However, due to the distance between the gas station and the current subject property, we do not consider the service station to be a recognized environmental condition for the current subject property.

It should be noted that the Phase I ESA report prepared by S&W indicated that there was a significant amount of snow present on the property grounds at the time of their site reconnaissance, which prevented them from observing the ground surface for additional areas of staining or other evidence of recognized environmental conditions.

A Phase Limited Phase II ESA was subsequently performed by S&W, in an effort to further evaluate the potential for gross contamination to have been present in the soil (on the current subject property); in relation to the recognized environmental conditions identified by S&W. Four soil borings were drilled on the parcel comprising the current subject property, from which a total of four soil samples were submitted to SGS Environmental Services (SGS), an ADEC-approved laboratory, for analyses of various contaminant constituents. Of all of the contaminant constituents for which the samples were analyzed, only arsenic was detected at concentrations exceeding ADEC cleanup levels in two of the four samples;

and the observed concentrations of arsenic were determined to be indicative of background levels of arsenic that naturally occur in Alaska.

Remaining areas of staining that were not directly characterized during their limited Phase II ESA were considered (by S&W) to be likely of "de minimis" quantities. Based on the information presented by S&W in their Phase I and limited Phase II ESA report, it is our opinion that the ultimate findings of their site investigation efforts do not indicate the presence of what, in our opinion, would constitute current recognized environmental conditions for the subject property. A copy of the 2013 S&W Phase I and limited Phase II ESA report is included in Appendix C.

4.0 SITE RECONNAISSANCE AND INTERVIEWS

Reconnaissance of the subject property was conducted on March 6, 2020. Weather conditions were cloudy, with an ambient temperature of approximately 14 degrees Fahrenheit. One representative from BGES was onsite to perform the reconnaissance. The following paragraphs discuss our findings and observations with respect to the site reconnaissance.

4.1 Subject Property

The subject property consisted of one irregularly-shaped parcel, which was accessed from South Knik-Goose Bay Road. The property consisted of a vacant lot with what appeared to be a snow-covered stockpile. The property grounds were covered with deep snow at the time of our site reconnaissance, which inhibited our ability to view the ground surface and hindered our ability to walk around the subject property. The property was accessed through a hole in fence at the southeast corner of the property, which fence line surrounded the subject property along the southern border of the subject property, which paralleled Knik-Goose Bay Road (Photograph 1 in Appendix A). Powerlines bordered the subject property's northern boundary (Photograph 2 in Appendix A). Snow covered piles were observed on the subject property, an attempt was made to further inspect the piles; however, due to the deep snow, the piles could not be reached (Photograph 3 in Appendix A).

A fence line and power lines ran along the eastern boundary of the subject property (Photographs 4 in Appendix A). An abandoned electrical meter was along subject property's eastern fence line (Photograph 5 in Appendix A). The western portion of the subject property was heavily vegetated with shrubs and trees (Photograph 6 in Appendix A).

4.2 Surrounding Properties

The area surrounding the subject property was comprised of vacant, mostly vegetated lots to the northwest

and west. The subject property was bordered to the east, north, and south by power lines. The subject property was bordered to the south by a multi-use sidewalk and Knik-Goose Bay Road. Knik Tire and Auto Center bordered the southern edge of the subject property along Knik-Goose Bay Road (Photograph 7 in Appendix A). Matanuska Coffee Company kiosk and Surface Works Countertops store were located to the south of the subject property across Knik-Goose Bay Road (Photographs 8 and 9 in Appendix A). Residential properties bordered the subject property to the north (Photograph 9 in Appendix A). No visually identified recognized environmental conditions with respect to the subject property were observed on any of the surrounding properties at the time of our site reconnaissance; as viewed from our vantage points on the subject property.

4.3 Interviews

Interviews were conducted with individuals knowledgeable about current or historic site conditions. The following sections provide pertinent information gathered from the interviews.

4.3.1 Charles Forester (CEO of Wasilla Area Seniors, Current Subject Property Leaseholder)

An environmental questionnaire was completed by Charles Forester, CEO of Wasilla Area Seniors on March 4, 2020. Wasilla Area Seniors is the current leaseholder of the property. Mr. Forester was not aware of any environmental liens outstanding against the subject property. He noted that a septic holding tank, leach field, and drinking water well had been located on the subject property. Mr. Forester indicated that structures existed on the subject property and had been serviced by aboveground heating oil containers. He indicated that he was unaware of any offsite fill material being brought on the subject property. He indicated that the subject property is not connected to municipal water and sewer services and natural gas service.

Mr. Forester stated that he has not personally observed staining on the subject property; however, a previous site assessment completed at the subject property indicated the presence of some staining (S&W Phase I and limited Phase II ESA, as discussed in Section 3.18, above). He was unaware of any engineering controls or land use restrictions associated with the subject property. A copy of the environmental questionnaire completed by Mr. Forester is included in Appendix C.

4.3.2 ENSTAR Natural Gas Company (ENSTAR)

An emailed request for information concerning the connection of the subject property to natural gas was made to ENSTAR on February 27, 2020. In an emailed response, ENSTAR indicated that natural gas services had not been connected to the subject property.

4.3.3 City of Wasilla Public Works Department (PWD)

An emailed request for information concerning the connection of the subject property to municipal water and sewer services was made to the City of Wasilla Public Works Department (PWD) on February 27, 2020. In an email response, the PWD indicated that public water service had not been connected to the subject property. The PWD also indicated that public sewer service has not been stubbed to the subject property, but a connection to the main (within a utility easement) is available.

5.0 FINDINGS AND CONCLUSIONS

5.1 Subject Property

Research and reconnaissance were performed of the grounds at the subject property. The following paragraphs summarize our findings.

Based on a review of historical aerial photographs, the subject property was first partially cleared sometime between 2002 and 2011, and two buildings had been brought onto/constructed on the subject property sometime during that period. According to ENSTAR, the subject property had never been connected to natural gas service; and according to the City of Wasilla PWD, the subject property has not been connected to public water or sewer service.

According to a Phase I ESA that was performed by S&W in 2013, the onsite buildings utilized heating fuel that was contained in an aboveground storage tank. The property also utilized an onsite water supply well and a septic system. It is unknown if the water supply well and/or the septic system are still present or if they have been removed from the property. Care should be exercised during any future excavation activities at the subject property, should these features remain below the ground surface. It should be noted that if any contaminants were introduced into the onsite septic system, the septic system could serve as a conduit for those contaminants to come into contact with the subsurface soils and/or groundwater at the subject property.

Several recognized environmental conditions were identified in association with onsite sources in the 2013 Phase I ESA prepared by S&W. S&W subsequently performed a limited Phase II ESA that included the advancement of seven soil borings (four of which that occurred within the area comprising the current subject property) and the collection and analysis of soil samples for typical contaminant constituents. Based on the results of this investigation, S&W concluded, "Based on the results of the Limited Phase II ESA, gross contamination was not noted in the investigated areas and further investigation is not recommended for the purposes of identifying gross or ubiquitous contamination associated with those concerns." They also stated, "Note that the results of the limited Phase II ESA notwithstanding, a potential remains for impacted media to be present at the site, although it is our opinion these media - if present – are likely de minimis in quantity." Based upon this information, it is our opinion that the areas of potential contamination that were observed and then investigated during limited Phase II ESA activities performed by S&W in 2013 at the subject property do not constitute current recognized environmental conditions.

It should be noted however, that at the time of their site reconnaissance and investigations, the ground surface was covered with snow; which prevented observation of the ground surface for the presence of other areas of staining. This was also the case when we performed our site reconnaissance. The inability to view the ground surface at the subject property, to look for evidence of staining or any other items that might suggest the existence of environmental concerns at the subject property constitutes a data gap.

5.2 Surrounding Properties

The area surrounding the subject property was comprised of vacant, mostly vegetated lots to the northwest and west. The subject property was bordered to the east, north, and south by power lines. The subject property was bordered to the south by a multi-use sidewalk and Knik-Goose Bay Road. No recognized environmental conditions with respect to the subject property were visually identified on any of the adjoining properties during our reconnaissance, based on observations made from our vantage points on the subject property.

The ADEC Contaminated Sites database listed one contaminated site as being located within ¹/₂ mile of the subject property. Based on the information obtained concerning this site as described in Section 3.9 above; it is our opinion that it does not constitute a recognized environmental condition with respect to the subject property.

No other sites were identified within any of the remaining reviewed databases (as discussed in Section 3.0, above), as being within the respective prescribed search distances for these resources.

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-13 at Tract A-2B, Center Point Subdivision, Phase 4 in Wasilla, Alaska; the subject property. Any exceptions to, or deletions from, this practice are described in Sections 1.0 and 6.0 of this report. This assessment has revealed no recognized environmental conditions with respect to the subject property.

6.0 EXCLUSIONS, CONSIDERATIONS AND QUALIFICATIONS

This Phase I ESA did not include a title search or sampling to identify the potential presence of asbestos,

lead-based paint, radon or other contaminants at this property. Further, subsurface evaluation, including soil and groundwater sampling was not part of the scope of work. Our ability to view the property grounds was inhibited by the presence of snow. As such, BGES cannot attest to the ground conditions at the subject property, nor can we attest to the presence or absence of any items or evidence that may constitute recognized environmental conditions for the property. This inability constitutes a data gap.

This report was prepared for our client, Amanda Matson of Cook Inlet Housing Association. The scope of work and level of effort were based on our proposal dated February 24, 2020. It is not intended for third parties to rely on the information provided in this report, except at their own risk. This report presents facts, observations, and inferences based on conditions observed during the period of our project activities, and only those conditions that were evaluated as part of our scope of work. Our conclusions and recommendations are based on our observations and the results of our research, and as such, rely on the accuracy of the databases that were reviewed and the information provided by the individuals that were interviewed. In addition, changes to site conditions may have occurred since we completed our initial project activities. These changes may be from the actions of man or nature. Changes in regulations may also impact the interpretation of site conditions. BGES will not disclose our findings to any parties other than our client as listed above, except as directed by our client, or as required by law.

This Phase I ESA was completed by Vanessa Crandell-Beck, Environmental Scientist I of BGES; was reviewed by Brian Braunstein, Senior Environmental Specialist of BGES. Ms. Crandell-Beck has conducted several Phase I ESAs throughout Alaska. Mr. Braunstein has over 15 years of professional environmental consulting experience, and has performed or managed hundreds of Phase I ESAs throughout Alaska.

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professionals as defined in 40 CFR Part 312. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. We have developed and performed all appropriate inquires in conformance with the standards and practices set forth in 40 CFR Part 312.

Prepared by:

anossa Crandell-Beck

Vanessa Crandell-Beck Environmental Scientist I

Reviewed by:

Brian Braunstein Senior Environmental Specialist







Source: Google Earth Pro





Source: Google Earth Pro.





Source: Google Earth Pro.







TABLE 1

Tract A-2B, Center Point Subdivision, Phase 4 Hill-Donnelly Directories Listings Wasilla, Alaska

Year/ Address	Knik Goose Bay Road	Address	S Century Circle	Address	Hardrock Circle	Address	S Fern Street	Address	Frank Smith Way
1980	Street not listed		Street not listed		Street not listed		Street not listed		Street not listed
1985	No businesses with an increased potential for environmental impact		Street not listed		Street not listed		Street not listed		Street not listed
1990	No businesses with an increased potential for environmental impact		Residential and Institutional Properties		Street not listed		Street not listed		Street not listed
1995	No businesses with an increased potential for environmental impact		Residential and Institutional Properties		Street not listed		Street not listed		Street not listed
2000 1700	Harmon Excavating		Residential and Institutional Properties		Street not listed		Street not listed		Street not listed
2005 1700	Harmon Excavating		Residential and Institutional Properties		Street not listed		Residential		Residential
2010 1301 1700 1800	Alaska Construction Equipment Harmon Excavating Knik Tire and Auto		Residential and Institutional Properties		Street not listed		Residential		Residential
2015 1301 1800	Alaska Construction Equipment Knik Tire and Auto		Residential and Institutional Properties		Street not listed		Residential		Residential
2019 1301 1800	Alaska Construction Equipment Northstar Trucking Knik Tire and Auto		Residential and Institutional Properties		Street not listed		Residential		Residential

TABLE 2 Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, Alaska ADEC Contaminated Sites Data

Site No.	Contaminated Site Facility	Site Location	HAZARD ID No.	Contaminated Site Information	Contaminated Site Status
1	Knik Texaco Service	1800 Knik-Goose Bay Road	968	After waste oil was dumped behind a building, oil was contaminated. Cleanup reportedly began on April 18, 1990. On August 18, 2006, three soil samples were collected at 1 to 2 feet below ground surface behind the building. Because of the presence of drums and tires, the entire area could not be assessed. Additional sampling required because the work plan was not followed. The owners as of 2013 intended to remove the existing UST system and complete the assessment and cleanup the remaining soil and groundwater contamination. In 2016, the USTs and associated piping were removed. The excavation was backfilled with imported fill. Soil samples exhibited benzene concentration of 0.219 mg/Kg and 0.0637 mg/Kg from near the dispenser island and piping, respectively. The remaining analytes of concern were well below the associated cleanup criteria.	Active
1	Knik Texaco Service	1800 Knik-Goose Bay Road	23488	During a site inspection in December 1993, gasoline contamination was observed at dispenser 3. In April 1994, three 6,000 gallon gasoline tanks, a 6,000 gallon diesel tank, and their associated piping were removed. Soil and groundwater contamination were observed at 10 ft bg. Contaminated soil was removed and stockpiled on the north side of the property. Soil contamination of DRO and GRO below the cleanup criteria remained in the ground. Soil contamination over cleanup criteria was found at 9 sample locations in addition to dispenser 3. The area around dispenser 3 was excavated to groundwater but not sampled. Benzene contamination was found in the groundwater at the dispenser 3 location. Two replacement 12,000 gallon gasoline tanks were installed later in April 1994. Three monitoring wells were installed later in 1994 and sampled in 1995. All three monitoring wells and the three monitoring wells were sampled in 2006. 8.5 cubic yards of contaminated soil was excavated, however, the soil was not field screened or sampled, then placed back in the excavation. Sampling had not occurred behind the building.	Active

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APPENDIX A PROPERTY PHOTOGRAPHS



Photo 1. The fence bordering the subject property along Knik-Goose Bay Road, looking south



Photo 3. Snow covered pile on the subject property, looking west



Photo 5. An abandoned electrical meter on the northeast border of the subject property, looking west



Photo 2. Powerline along the northern border of subject property, looking west



Photo 4. Fence line and powerlines along the eastern boundary of subject property, looking north



Photo 6. Heavily vegetated area at the western section of the subject property, looking north

Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, Alaska
Property Photographs
BGES, NC. March 2020 Figure A-1



Photo 7. Knik Tire and Auto Center bordered the southern edge of the subject property along Knik-Goose Bay Road



Photo 9. Surface Works Countertops located to the south of the subject property across Knik-Goose Bay Road



Photo 8. Matanuska Coffee Company kiosk located to the south of the subject property across Knik-Goose Bay Road

Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, Alaska **Property Photographs**

BGES, INC.

APPENDIX B ADEC CONTAMINATED SITE REPORTS



Alaska Department of ENVIRONMENTAL CONSERVATION

CONTAMINATED SITES PREVENTION PREPAREDNESS & RESPONSE

RESPONSE FUND ADMIN REPORT A SPILL

שונב הבףטונ. הוווג ובאמנט שבו אונב

SITE NAME: Knik Texaco Service

ADDRESS: 1800 Knik-Goose Bay Road, Mi. 1.45 Knik-Goose Bay, Wasilla, AK 99687

FILE 2265.26.017 NUMBER:

HAZARD ID: 968

STATUS: Active

STAFF: Robert Weimer, 9072697525 Robert.Weimer@alaska.gov

LATITUDE: 61.563286

LONGITUDE: -149.459947

HORIZONTAL WGS84 DATUM:

We make every effort to ensure the data presented here is accurate based on the best available information currently on file with DEC. It is therefore subject to change as new information becomes available. We recommend contacting the assigned project staff prior to making decisions based on this information.

Division of Spill Prevention and Response

Problems/Comments

Waste oil was dumped behind building. Soils contaminated. Cleanup was to have been started on April, 18 1990. Tax Parcel D15. A LUST Site exists at this location as well. See - Texaco - 1.5 Mile Knik Road, Hazard ID 23488, Reckey 1983220035001, Facility ID 2540. On August 18, 2006 three soil samples were collected at 1 to 2 feet below ground surface behind the building. The whole area of concern behind the building could not be assessed because of the presence of tires and drums. Up to 463 mg/kg DRO, 5,180 mg/kg RRO, non-detect (<0.00791 mg/kg) benzene, non-detect (<0.0563 mg/kg) PCBs, and 10.3 mg/kg arsenic where the soil samples were collected. They did not collect GRO soil samples as required in the approved work plan. Need samples from the area behind the building to define the extent of the remaining contamination.

Action Information

ACTION DATE	ACTION	DESCRIPTION	DEC STAFF
5/29/1992	Site Added to Database	Waste oil.	No Longer Assigned
12/9/1992	Site Ranked Using the AHRM	Initial ranking.	No Longer Assigned
6/25/2008	Exposure Tracking Model Ranking	Site ranked on the new Exposure Tracking Model (ETM). The ETM is a new site ranking system that looks at, based on available data, the potential exposure pathways for the contamination remaining at the site.	Robert Weimer
6/30/2008	Site Characterization Report Approved	On August 18, 2006 three soil samples were collected at 1 to 2 feet below ground surface behind the building. The whole area of concern behind the building could not be assessed because of the presence of tires and drums. Up to 463 mg/kg DRO, 5,180 mg/kg RRO, non-detect (<0.00791 mg/kg) benzene, non-detect (<0.0563 mg/kg) PCBs, and 10.3 mg/kg arsenic where the soil samples were collected. They did not collect GRO soil samples as required in the approved workplan. The three planned soil borings near where contamination had been documented at the UST system were not done.	Robert Weimer
5/13/2010	Update or Other Action	EPA to send letter to current operator regarding their active injection well. The shop floor drains still go to the on-site sewer system, they believe there are 2 of them on this property.	Robert Weimer
3/11/2011	Meeting or Teleconference Held	Talked with current owner (Kevin Peterson). He said that EPA (Jennifer P) contacted him about assessing whether there was any contamination from the past discharge of the floor drains to the on property septic system or other on property disposal system. He said that he had plugged up the floor drains in the shop. We also discussed that there are two open contaminated sites for the property and further soil, groundwater, and drinking water sampling is required. He said he will contact the previous property owner (HR) about any work that has been done since March 2006, and who will	Robert Weimer

2/26/2020		Division of Spill Prevention and Response	
		be the lead/responsible for all of the follow up work. He said that the one drinking water well has been sampled each year but was not sure if it was sampled for petroleum. He will look into that and submit any petroleum sample results.	
3/22/2011	Exposure Tracking Model Ranking	A new updated ranking with ETM has been completed for source area 71947 1990 Used oil spill.	Robert Weimer
8/5/2011	Site Characterization Workplan Approved	On August 5, 2011 EPA conditionally approved a closure plan for two motor vehicle waste disposal wells at the site. The plan calls for plugging the floor drains that discharge into the on-site septic system and collecting soil samples from the soil/water interface of the septic system to assess for petroleum contamination by methods 8260 (VOCs), 8270 (SVOCs), and for the metals (arsenic, cadmium, chromium, and lead).	Robert Weimer
12/8/2011	Update or Other Action	EPA forwarded analytical results they received from the consultant who collected one soil sample from each of the two on property leach fields that had been previously hooked up to floor drains. The samples were analyzed for SVOCs, VOCs, and some metals. Up to 4.81 mg/kg Arsenic, 19.6 mg/kg Chromium, and 3.85 mg/kg Lead. SVOCs and VOCs were all non-detect at the two locations sampled. Need final report and complete copies of field notes to evaluate representativeness of the samples collected.	Robert Weimer
5/24/2013	Site Visit	Site visit to observe current site conditions.	Robert Weimer
10/29/2013	Update or Other Action	Talked with current owners represenative (who has just re- aquired the property), they plan to remove the existing UST system (needs to submit closure notice) and complete the assessment and cleanup of the remaining soil and groundwater contamination from the former UST system. He will provide copies of all sampling conducted since 2006, including any analysis for petroleum in the drinking water wells since 2006. DEC requested that he have his environmental firm submit a work plan for review and approval for collecting samples during the UST removal so the current USTs and past UST contamination can be assessed. The will also have a work plan submitted for the assessment of the contamiantion behind the building (CS site).	Robert Weimer
12/14/2015	Update or Other Action	Have not received the information discussed with the property owner on 10/29/2013.	Robert Weimer
12/16/2016	Report or Workplan Review - Other	On September 10-11, 2014 the underground storage tanks and associated piping was removed. The excavation was backfilled with the excavated material and imported fill. The sampling identified benzene contamination at the southern dispenser island (0.219 mg/kg) and the piping sample (0.0637 mg/kg) collected 5 feet north of that dispenser. The	Robert Weimer

2/26/2020	Division of Spill Prevention and Response	
	detectable PAH in the one PAH sample collected had 25.1	
	mg/kg DRO, and non-detect GRO and BTEX. On September	
	25, 2014 they returned to the site and excavated out 8.5	
	cubic yards of soil at the dispenser and piping area that were	
	above cleanup levels. The base and sidewall samples	
	collected from that excavation met cleanup levels. Up to 4.37	
	mg/kg GRO, 29.7 mg/kg DRO in the samples collected. The	
	8.5 cubic yards of contaminated soil excavated was not field	
	screened or sampled and placed back in the excavation.	
	There was no sampling conducted behind the building where	
	the surface spill occurred.	
12/29/2017 Update or Other Action	On March 1, 2017 provided copies of requested assessment	Robert Weimer
	reports to State of Alaska DOT for roadwork in the area.	

Contaminant Information



P.O. Box 111800 Juneau, AK 99811-1800 Phone: 907-465-5066 Fax: 907-465-5245 TDD: 800-770-8973 Physical Location: 410 Willoughby



Alaska Department of ENVIRONMENTAL CONSERVATION

CONTAMINATED SITES PREVENTION PREPAREDNESS & RESPONSE

RESPONSE FUND ADMIN REPORT A SPILL

SILE REPUIL. LEVALO - I.S MILE VIIK VA

SITE NAME: Texaco - 1.5 Mile Knik Rd

ADDRESS: Mi. 1.5 Knik Rd.; 1800 Goose Bay Road, Wasilla, AK 99687

FILE 2265.26.017 NUMBER:

HAZARD ID: 23488

STATUS: Active

STAFF: Robert Weimer, 9072697525 Robert.Weimer@alaska.gov

LATITUDE: 61.563064

LONGITUDE: -149.460011

HORIZONTAL WGS84 DATUM:

We make every effort to ensure the data presented here is accurate based on the best available information currently on file with DEC. It is therefore subject to change as new information becomes available. We recommend contacting the assigned project staff prior to making decisions based on this information.

Problems/Comments

During a December 20, 1993 site inspection gasoline contamination was observed at the dispenser #3. On April 1994 three 6,000 gallon gasoline tanks, a 6,000 gallon diesel tank and their associated piping were removed. Soil and groundwater (at 10 feet below ground surface) contamination was observed. 15 cubic yards of diesel contaminated soil and 115 cubic yards of gasoline contaminated soil were removed and stockpiled on the north side of the property. Soil contamination up to 3.32 mg/kg benzene, 22.4 mg/kg GRO, and 8.35 mg/kg DRO remain in the ground. Soil contamination over cleanup levels was found at 9 sample locations in addition to dispenser #3. The most contaminated area (dispenser #3) was excavated to groundwater but not sampled. Up to 15.5 mg/l benzene was found in the groundwater at the dispenser #3 location. Two 12,000 gallon gasoline replacement tanks were installed later in April 1994. There is also used oil contamination from a 1990 spill behind the building. Later in 1994 three monitoring wells were installed. The monitoring wells were sampled in 1995 and all three exceeded groundwater cleanup levels. In March 2006 the three monitoring wells and the two closest drinking water wells were sampled. One of the drinking water wells is located on the property about 150 feet away. Up to 4.72 ug/l benzene was found in monitoring well #1. Both of the drinking water wells were non-detect for BTEX and GRO. In August 2006 three monitoring wells were sampled (up to 1.63 ug/l benzene, and non-detect (<0.1 mg/l) GRO). The two drinking water wells (on property well and adjacent property well) were not sampled. On August 18, 2006 three soil samples were collected at 1 to 2 feet below ground surface behind the building. The whole area of concern behind the building could not be assessed because of the presence of tires and drums. Up to 463 ma/kg DRO, 5,180 ma/kg RRO, non-detect (<0.00791 ma/kg) benzene, non-detect (<0.0563 ma/kg) PCBs, and 10.3 mg/kg arsenic where the soil samples were collected. They did not collect GRO soil samples as required in the approved work plan. The three planned soil borings near where contamination had been documented at the UST system were not done. In 2011 one soil sample was collected from each of the two on property leach fields that had been previously hooked up to floor drains. The samples were analyzed for SVOCs, VOCs, and some metals. Up to 4.81 mg/kg Arsenic, 19.6 mg/kg Chromium, and 3.85 mg/kg Lead. SVOCs and VOCs were all non-detect at the two locations sampled. Need final report and complete copies of field notes to evaluate representativeness of the samples collected. On September 10-11, 2014 the underground storage tanks and associated piping was removed. The excavation was backfilled with the excavated material and imported fill. The sampling identified benzene contamination at the southern dispenser island (0.219 mg/kg) and the piping sample (0.0637 mg/kg) collected 5 feet north of that dispenser. The detectable PAH in the one PAH sample collected had 25.1 mg/kg DRO, and non-detect GRO and BTEX. On September 25, 2014 they returned to the site and excavated out 8.5 cubic yards of soil at the dispenser and piping area that were above cleanup levels. The base and sidewall samples collected from that excavation met cleanup levels. Up to 4.37 mg/kg GRO, 29.7 mg/kg DRO in the samples collected. The 8.5 cubic yards of contaminated soil excavated was not field screened or sampled and placed back in the excavation. There was no sampling conducted behind the building where the surface spill occurred. The three site monitoring wells were removed as part of the UST removal in 2014. Need release investigation to define the extent of the soil and groundwater contamination for the used oil spill behind the building. Need final report and complete copies of field notes to evaluate representativeness of the septic system samples collected to assess for contamination from the injections well (floor drains go to on-site septic system).

Action Information

ACTION DATE	ACTION	DESCRIPTION	DEC STAFF
12/16/1993	Leaking Underground Storage Tank Release Confirmed - Petroleum	LUST Site created in CSP for source area ID 77680 Gasoline contamination found beneath fuel dispenser #3 (gasoline).	* Not Assigned
12/16/1993	Site Added to Database		* Not Assigned
4/21/1994	Leaking Underground Storage Tank Cleanup Initiated - Petroleum	130 cubic yards of contaminated soil was excavated during the removal of the 4 tanks and associated piping. Two new tanks were installed along with new piping.	* Not Assigned
4/24/1994	Underground Storage	Diesel and gasoline contamination was encountered during	* Not Assigned

Division of Spill Prevention and Response

	Tank Site Characterization or Assessment	the tank and piping removal. 15 cubic yards of diesel and 115 cubic yards of gasoline contaminated soil was removed and stockpiled on the north side of the property. The soil was excavated to 10 to 12 feet below ground surface where groundwater was encountered. Up to 3.32 mg/kg benzene, 26.7 mg/kg GRO, and 8.35 mg/kg DRO soil contamination remain. The most contaminated area (dispenser #3) did not have a confirmation soil sample collected but did have a groundwater sample of 15.5 mg/l benzene.	
6/1/1994	Release Investigation	Three monitoring wells were installed.	* Not Assigned
7/12/1994	Update or Other Action	ADEC letter requesting quarterly groundwater monitoring of the three monitoring wells and the on property drinking water well. The on property passive aeration of the contaminated stockpiles is approved.	Robert Weimer
8/16/1995	Report or Workplan Review - Other	June 6, 1995 groundwater monitoring event. Up to 9,240 ug/l benzene (5 ug/l cleanup level) in the groundwater.	Robert Weimer
9/27/1995	Report or Workplan Review - Other	Reviewed a soil remediation and groundwater sampling report. Quarterly groundwater sampling does not appear to have occurred. This sampling schedule needs to be adhered to in the future.	* Not Assigned
10/11/1995	Leaking Underground Storage Tank Corrective Action Underway	Reviewed a soil remediation plan for the on property stockpiles. The department approves the thermal treatment at CleanSoils or at any other department-approved thermal treatment facility.	* Not Assigned
1/16/1996	Report or Workplan Review - Other	December 8, 1995 groundwater monitoring event. Up to 6,500 ug/l benzene (5 ug/l cleanup level) in the groundwater.	Robert Weimer
1/24/1996	Report or Workplan Review - Other	Reviewed a groundwater monitoring report. Still significant benzene in the groundwater in the vicinity of monitoring wells #2 and #3, and benzene levels in well #1 remain above acceptable levels. Groundwater remediation appears to be needed. Plume delineation is needed. Drinking water well needs to be sampled by 2/26/96.	* Not Assigned
1/24/1996	Update or Other Action	ADEC letter requesting groundwater treatment, defining the extent of the groundwater contamination, and sampling of the on property drinking water well.	Robert Weimer
5/15/1996	Update or Other Action	ADEC letter discussed plan (4/8/1996) to install 3 additional monitoring wells and use ORC socks to treat the groundwater.	* Not Assigned
11/20/1997	Update or Other Action	ADEC sends Notification of Intent to Cost Recover Letter to Current Owner: HARRY H. ROSENCRANS	* Not Assigned
6/20/2005	Update or Other Action	ADEC letter requesting information that was previously requested in 1996.	Robert Weimer

Division of Spill Prevention and Response

3/16/2006	Update or Other Action	Work plan submitted for the sampling the three monitoring wells and the two closest drinking water wells.	Robert Weimer	
3/21/2006	Update or Other Action	File number issued 2265.26.017.	Aggie Blandford	
3/21/2006	Update or Other Action	Work plan approval letter sent to owner in response to plan received on 16 March 2006 via e-mail. Approval includes the following: 1. Groundwater samples will be collected from three existing monitoring wells; a. Water level, dissolved oxygen, temperature, pH, and conductivity will be recorded; b. Purge water will be stored on-site in a 55-gallon drum until approved for disposal; 2. Water samples will be collected from two drinking water wells, one on-site and the second on the property adjacent to the project site; a. These samples will be collected from accessible faucets, prior to potential treatment units; 3. Five water samples and one field duplicate will be analyzed for gasoline range organics, benzene, toluene, ethylbenzene, and total xylenes; 4. A trip blank will be analyzed for benzene, toluene, ethylbenzene, and total xylenes; 5. A closed-loop monitoring well survey will be completed to establish elevations of the three monitoring wells; 6. A report summarizing data collected and interpretations of analyses will be submitted to the Department for review within forty-five (45) days of receipt of laboratory results; a. If established levels for drinking water quality are exceeded in the drinking water wells, the Department will be informed immediately; and b. Because the Department file on this site is incomplete, the report should provide a synopsis of all available information available from Mr. Rosencrans.	Lynne Bush	
5/9/2006	Update or Other Action	Project management transferred from Bush to Weimer.	Aggie Blandford	
6/1/2006	Report or Workplan Review - Other	March 17, 2006 groundwater monitoring event. Three monitoring wells sampled (up to 4.72 ug/l benzene, and non- detect GRO). Two drinking water wells sampled (on property well and adjacent property well) and both were non-detect for BTEX and GRO. Depth to groundwater in the monitoring wells was 10.85 to 11.43 feet below ground surface. Groundwater flow direction was generally to the southwest.	Robert Weimer	
6/6/2006	Update or Other Action	Discussed site work needed for closure with owners rep (Loyd Reese), we need at least one more groundwater monitoring event, a work plan for collecting confirmation soil samples for the tank/dispenser benzene contamination and the used oil contamination area behind the building. If all samples meet default cleanup levels site closure could be issued.	Robert Weimer	
8/17/2006	Update or Other Action	Approved revised July 5, 2006 Workplan for collecting confirmation soil and groundwater samples. Three samples will be collected behind the building to assess the 1990 used	Robert Weimer	
2/26/2020		Division of Spill Prevention and Response		
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		oil spill. Three confirmation soil borings are to be drilled at the former tank area and near the south dispenser island. Groundwater samples are also to be collected from the three monitoring wells.		
8/18/2006	Site Characterization Report Approved	August 18, 2006 groundwater monitoring event. Three monitoring wells sampled (up to 1.63 ug/l benzene, and non- detect (<0.1 mg/l) GRO). The two drinking water wells sampled (on property well and adjacent property well) were not sampled. Depth to groundwater in the monitoring wells was 8.92 to 10.01 feet below ground surface. Groundwater flow direction was generally to the southwest.	Robert Weimer	
9/6/2006	Update or Other Action	Discussed site with RP's consultant. Groundwater sampling and surface sampling for the used oil spill were conducted recently. RP would not let them drill the soil borings as proposed in the former UST area and near the dispenser. The sampling of those areas may have to wait until the UST system is upgraded or removed. Will need to continue to do long-term groundwater monitoring until confirmation soil samples can be collected verifying that soil meets site cleanup levels.	Robert Weimer	
1/9/2007	Update or Other Action	Talked with RP (HR). He will have his consultant submit a copy of the report for the fall 2006 groundwater sampling. We discussed that long-term monitoring (and possibly drinking water well sampling) will be required if they are not able to collect confirmation soil samples close enough to the previously identified contaminated soil areas. He will be contacting Department of Law about paying his cost recovery.	Robert Weimer	
3/5/2007	Exposure Tracking Model Ranking	Site ranked on the new Exposure Tracking Model (ETM). The ETM is a new site ranking system that looks at, based on available data, the potential exposure pathways for the contamination remaining at the site.	Robert Weimer	
6/10/2008	Report or Workplan Review - Other	On August 18, 2006 three soil samples were collected at 1 to 2 feet below ground surface behind the building. The whole area of concern behind the building could not be assessed because of the presence of tires and drums. Up to 463 mg/kg DRO, 5,180 mg/kg RRO, non-detect (<0.00791 mg/kg) benzene, non-detect (<0.0563 mg/kg) PCBs, and 10.3 mg/kg arsenic where the soil samples were collected. They did not collect GRO soil samples as required in the approved work plan. The three planned soil borings near where contamination had been documented at the UST system were not done.	Robert Weimer	
7/18/2008	Update or Other Action	Talked with RP's consultant. The RP will need to continue to have the groundwater and drinking water wells sampled until it is confirmed that the soil and groundwater meet default cleanup levels.	Robert Weimer	

2/26/2020		Division of Spill Prevention and Response	
5/13/2010	Update or Other Action	EPA to send letter to current operator regarding their active injection well. The shop floor drains still go to the on-site sewer system, they believe there are 2 of them on this property.	Robert Weimer
3/11/2011	Meeting or Teleconference Held	Talked with current owner (Kevin Peterson). He said that EPA (Jennifer P) contacted him about assessing whether there was any contamination from the past discharge of the floor drains to the on property septic system or other on property disposal system. He said that he had plugged up the floor drains in the shop. We also discussed that there are two open contaminated sites for the property and further soil, groundwater, and drinking water sampling is required. He said he will contact the previous property owner (HR) about any work that has been done since March 2006, and who will be the lead/responsible for all of the follow up work. He said that the one drinking water well has been sampled each year but was not sure if it was sampled for petroleum. He will look into that and submit any petroleum sample results.	Robert Weimer
8/5/2011	Site Characterization Workplan Approved	On August 5, 2011 EPA conditionally approved a closure plan for two motor vehicle waste disposal wells at the site. The plan calls for plugging the floor drains that discharge into the on-site septic system and collecting soil samples from the soil/water interface of the septic system to assess for petroleum contamination by methods 8260 (VOCs), 8270 (SVOCs), and for the metals (arsenic, cadmium, chromium, and lead).	Robert Weimer
12/8/2011	Update or Other Action	EPA forwarded analytical results they received from the consultant who collected one soil sample from each of the two on property leach fields that had been previously hooked up to floor drains. The samples were analyzed for SVOCs, VOCs, and some metals. Up to 4.81 mg/kg Arsenic, 19.6 mg/kg Chromium, and 3.85 mg/kg Lead. SVOCs and VOCs were all non-detect at the two locations sampled. Need final report and complete copies of field notes to evaluate representativeness of the samples collected.	Robert Weimer
5/24/2013	Site Visit	Site visit to observe current site conditions.	Robert Weimer
10/29/2013	Update or Other Action	Talked with current owners represenative (who has just re- aquired the property), they plan to remove the existing UST system (needs to submit closure notice) and complete the assessment and cleanup of the remaining soil and groundwater contamination from the former UST system. He will provide copies of all sampling conducted since 2006, including any analysis for petroleum in the drinking water wells since 2006. DEC requested that he have his environmental firm submit a work plan for review and approval for collecting samples during the UST removal so the current USTs and past UST contamination can be assessed. The will also have a work plan submitted for the	Robert Weimer

Division of Spill Prevention and Response

		assessment of the contamiantion behind the building (CS site).	
10/22/2014	Offsite Soil or Groundwater Disposal Approved	Approved 10 cubic yards of gasoline contaminated soil to be disposed of at Palmer MSB Central Landfill. The soil meets the landfill standards. The soil was generated at one of the dispensers when the current UST system was removed between September 9-11, 2014.	Robert Weimer
12/14/2015	Update or Other Action	Have not received the information discussed with the property owner on 10/29/2013.	Robert Weimer
12/16/2016	Report or Workplan Review - Other	On September 10-11, 2014 the underground storage tanks and associated piping was removed. The excavation was backfilled with the excavated material and imported fill. The sampling identified benzene contamination at the southern dispenser island (0.219 mg/kg) and the piping sample (0.0637 mg/kg) collected 5 feet north of that dispenser. The detectable PAH in the one PAH sample collected had 25.1 mg/kg DRO, and non-detect GRO and BTEX. On September 25, 2014 they returned to the site and excavated out 8.5 cubic yards of soil at the dispenser and piping area that were above cleanup levels. The base and sidewall samples collected from that excavation met cleanup levels. Up to 4.37 mg/kg GRO, 29.7 mg/kg DRO in the samples collected. The 8.5 cubic yards of contaminated soil excavated was not field screened or sampled and placed back in the excavation. There was no sampling conducted behind the building where the surface spill occurred.	Robert Weimer
12/29/2017	Update or Other Action	On March 1, 2017 provided copies of requested assessment reports to State of Alaska DOT for roadwork in the area.	Robert Weimer
6/10/2019	Exposure Tracking Model Ranking	A new updated ranking with ETM has been completed for source area 77680 UST Contamination.	Robert Weimer

Contaminant Information

NAME	LEVEL DESCRIPTION		MEDIA	COMMENTS	
Control Ty	уре				
ТҮРЕ		DETAILS			
Requirem	ients				
DESCRIPTI	ON		DETAILS		

BGES, INC.

APPENDIX C 2013 SHANNON & WILSON PHASE I & LIMITED PHASE II ESA REPORT, & COMPLETED ENVIRONMENTAL QUESTIONNAIRE

EXECUTIVE SUMMARY

This report documents the results of our Phase I and Limited Phase II Environmental Site Assessment (ESA) for 1802 Knik-Goose Bay Road, Wasilla, Alaska (the Property).

Phase I ESA

The purpose of the Phase I ESA was to develop a professional opinion as to the presence of recognized environmental conditions (RECs), as defined by ASTM International (ASTM) Standard E 1527-05.

Multiple environmental conditions were identified at the Property. Based on our opinion regarding the potential for a release, material threat of a release, or other threat to human health and the environment, we have classified the conditions as RECs, Historical RECs, or Other Environmental Conditions.

Recognized Environmental Conditions

A REC is the presence or likely presence of a hazardous substance or petroleum product under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the Property or into the Property's ground, groundwater, or surface water. Mr. Randy Harman, Property owner, stated all material currently stored on the Property (i.e. structures connex storage containers, vehicles, etc.) will be removed, pending the Property transaction. Therefore, the two on-site residential/office structures and potential concerns associated with these structures were excluded in this evaluation. If these structures and supporting features (e.g. heating oil tanks) are not removed, our conclusions will need to be revised. This assessment revealed no evidence of RECs in connection with the Property and the surrounding parcels except the following.

On-Site Recognized Environmental Conditions

General vehicle/equipment maintenance is conducted on the Property. Leaks and/or spills of fluids associated with maintenance activities could impact the Property's soil and/or groundwater. Surface stains, likely attributable to petroleum product releases, were observed in the heavy equipment storage area. Snow cover precluded a comprehensive visual assessment of the ground surface.

Four 55-gallon drums were observed in the connex storage container west of the residential/office structures. Two of the 55-gallon drums were empty, one drum was partially filled with used oil, and one drum reportedly contained antifreeze. Surface stains were observed on the wood floor of the connex storage container. There is a potential that used oil and/or other products spilled on the wood floor have leaked beneath the wood floor and impacted the ground surface.

Off-Site Recognized Environmental Conditions

The Knik Texaco Service site (aka Texaco – 1.5 Mile Knik Road and Knik Tire & Auto) is an "active" LUST site and is located adjacent south of the Property at 1800 Knik-Goose Bay Road. The site was added to the database in 1992 when dumped waste oil was discovered behind the on-site building. The site was added to the database a second time in 1993 when gasoline contamination was encountered beneath a fuel dispenser. According to the ADEC project manager, the soil and groundwater contamination associated with this site has not been delineated and could impact the Property. In addition, two gasoline underground storage tanks (USTs), one 12,000-gallon and one 10,000-gallon, are currently in use. Releases from the active USTs and vehicle repair operations could potentially impact the Property.

Historical Recognized Environmental Conditions

A historical REC is an environmental condition that may have constituted a REC in the past, but has been closed by a regulatory agency or otherwise is no longer considered to pose a material threat. Historical RECs were not identified in connection with the Property and the surrounding parcels. No on-site or off-site historical RECS were identified.

Other Environmental Conditions

Other Environmental Conditions include known, suspected, or potential sources of hazardous substances or petroleum products that are not considered RECs due to (a) the absence of a confirmed release or other material threat, (b) insufficient information to sufficiently evaluate the condition, (c) de minimis conditions that are not expected to be subject to regulatory action or (d) exclusion from the ASTM definition of hazardous material (e.g. ACM). The following Other Environmental Conditions were identified on the Property.

- The Property is used to store unused and/or discarded materials (i.e. tires, miscellaneous building materials, numerous empty chemical storage containers) that may be classified as solid waste per state and federal environmental regulations.
- The site has an on-site septic tank and leach field. This system could pose environmental risk if chemicals are disposed through the structures' sinks and toilets.
- The Property's structures are serviced by heating oil stored in aboveground storage tanks (ASTs). In addition, structures south of the Property predate the availability of natural gas services. It is unknown whether potential heating oil tanks, if present, were properly removed, abandoned in place, or are currently in use. It is possible that releases from Property's fuel storage tanks and/or nearby storage tanks could impact the Property's soil and/or groundwater. Evidence of leaks and/or spills associated with the ASTs was not observed during the March 4, 2013 site visit.
- Wetlands are present on the Property. If construction is to occur, a wetland delineation and other associated permits may be required prior to construction activities.

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• A burn barrel was observed west of the residential/office structures. There is a potential that petroleum products were used to ignite materials in the burn barrel. There is also a potential that the process of burning debris resulted in the release of contaminants. A visual assessment of the ground surface of the burn barrel could not be conducted due to snow cover.

Phase II ESA

The purpose of the Limited Phase II ESA was to further evaluate if the Property's soil has been impacted by the RECs and other environmental conditions listed above. As part of our Limited Phase II ESA, seven borings were advanced and sampled for petroleum hydrocarbons and volatile organic compounds. Arsenic was measured in one soil sample at a concentration that exceeds the most stringent Alaska Department of Environmental Conservation (ADEC) Method 2 cleanup level, but typical of soil in the area. The results of our limited Phase II did not reveal evidence of a reportable release of petroleum hydrocarbons or other hazardous substances.

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ACRONYMS AND ABBREVIATIONS

AAC	Alaska Administrative Code
ACMs	Asbestos Containing Materials
ADEC	Alaska Department of Environmental Conservation
ADNR	Alaska Department of Natural Resources
AK	Alaska Method
AST	Above Ground Storage Tank
ASTM	ASTM International
bgs	Below ground surface
BTEX	Aromatic hydrocarbons
CERCLIS	Comprehensive Environmental Response Compensation and Liability Information System
CORRACTS	TSD Facilities Subject to Corrective Action
Discovery	Discovery Drilling Inc. of Anchorage, Alaska
DQO	Data Quality Objective
DRO	Diesel Range Organics
EPA	Environmental Protection Agency
ERNS	Emergency Response Notification System
ESA	Environmental Site Assessment
GRO	Gasoline Range Organics
Legacy	Legacy, LLC
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
LUST	Leaking Underground Storage Tank
MS/MSD	Matrix Spike/Matrix Spike Duplicate
NONCORRACTS	TSD Facilities Not Subject to Corrective Action
NPL	National Priorities List
PID	Photoionization Detector
ppm	Parts per million
PWD	City of Wasilla Public Works Department

ACRONYMS AND ABBREVIATIONS (continued)

REC	Recognized Environmental Condition
RCRA	Resource Conservation and Recovery Act
RRO	Residual Range Organics
SGS	SGS North America Inc. of Anchorage, Alaska
TSD	Treatment, Storage, and Disposal
USFWS	U.S. Fish and Wildlife Service
USGS	United States Geological Survey
UST	Underground Storage Tank
VOCs	Volatile Organic Compounds
WELTS	Well Log Tracking System

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PHASE I AND LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT 1802 KNIK-GOOSE BAY ROAD WASILLA, ALASKA

1.0 INTRODUCTION

This report documents the results of our Phase I and Limited Phase II Environmental Site Assessment (ESA) prepared for 1802 Knik-Goose Bay Road, Wasilla, Alaska (the Property). The Property consists of three parcels and encompasses approximately 80 acres.

2.0 PHASE I ESA

The purpose of the Phase I ESA was to develop a professional opinion regarding recognized environmental conditions (REC), as defined by ASTM International (ASTM) Standard E 1527-05. This term is defined by ASTM as the presence or likely presence of a hazardous substance or petroleum product under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the Property or into the Property's ground, groundwater, or surface water.

2.1 Special Terms and Conditions

This report was prepared for Legacy, LLC (Legacy). This work was performed in general accordance with our proposal for environmental services dated February 22, 2013, and with ASTM E 1527-05. A copy of our proposal is included in Appendix A. Authorization to proceed with the Phase I and Limited Phase II ESA was received from Ms. Micaela Jones, Legacy Real Estate Director, on February 24, 2013 in the form of a signed proposal.

2.2 Limitations and Exceptions

The following elements of the Phase I ESA constitute deviations, exceptions, and/or data gaps, with respect to the standard requirements of ASTM E 1527-05. In our opinion, none of these considerations impacts our ability to identify recognized environmental conditions at the subject property.

• The Alaska Department of Environmental Conservation (ADEC) List of Contaminated Sites is assumed to be equivalent to a hazardous waste sites list and includes voluntary cleanup sites.

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- Tribal lists of environmental concerns were not reviewed. The tribal lists are identified as "standard environmental sources" in ASTM Section 8.2.1. To our knowledge, such databases do not exist for the State of Alaska.
- Historical use of the Property is identified back to 1949, not to 1940, as required by ASTM E 1527-05. The oldest historical record is an aerial photograph from 1949 that shows the Property and adjacent parcels to be vegetated and undeveloped.
- All of the Standard Historical Sources listed in ASTM Section 8.3.4 were not researched for this ESA because they were not reasonably ascertainable and likely to be useful. For example, fire insurance maps, local street directories, building department records, and property tax files were not researched.
- Mr. Randy Harman, Property owner, stated all material currently stored on the Property (i.e. structures connex storage containers, vehicles, etc.) will be removed, pending the Property transaction. Therefore, the two on-site residential/office structures and potential concerns associated with these structures were excluded in this evaluation. If these structures and supporting features (e.g. heating oil tanks) are not removed, our conclusions will need to be revised. It is our understanding that the on-site drinking water well and septic tank and leach field will remain on the Property.
- Shannon & Wilson did not interview previous Property owners because their information was not provided by Mr. Harman.
- An attempt was made to contact Mr. Kevin Peterson via telephone on April 17, 2013. Mr. Peterson owns the Knik Texaco service property, adjacent south of the Property. Our effort to contact Mr. Peterson was unsuccessful.
- Due to the time of year the site visit was conducted, snow cover limited our visual assessment of the ground surface.

2.3 User Reliance

This report can be relied upon by, and has been prepared for the exclusive use of Legacy and affiliates of Legacy. Legacy can convey this report to a subsidiary, lender, title insurer, regulatory/city agent or current property owner(s) and their agents, but further dissemination requires prior written approval from Shannon & Wilson, Inc. The limitations of the report are further described in Section 6.

2.4 Report Viability Date

The following table includes the date information used to calculate the report viability date.

Table of Critical Dates		
Report Issuance Date	April 23, 2013	
Date of Interview of Owners and Occupants	March 4, 2013	
Date of Recorded Environmental Cleanup Lien Search	March 19, 2013	
Earliest Date of Government Record Review	March 19, 2013	
Date of Visual Inspection of Subject and Adjoining Properties	March 4, 2013	
Earliest Date of Interviews, Lien Search, Records Reviews, and Inspections	March 4, 2013	
Report Viability Date	August 31, 2013	

2.5 Site and Project Description

2.5.1 Location and Legal Description

The street address for the Property is 1802 Knik-Goose Bay Road, Wasilla, Alaska. The Property comprises three contiguous parcels (Tracts A-1A and A-2A, Center Point Subdivision Phase 4 and all the land within the west ½ of the northeast ¼ of Section 16, Township 17 North, Range 01 West, Seward Meridian) and encompasses approximately 80 acres. The Property is located in the northeast ¼ of Section 16, Township 17 North, Range 01 West, Seward Meridian, Alaska, as referenced by the United States Geological Survey (USGS) Anchorage C-7 SW quadrangle. A vicinity map showing the surrounding area is included as Figure 1. Figure 2 is a site plan depicting the site features of the Property and adjacent parcels.

2.5.2 Site and Vicinity Characteristics

The Property is located in a mixed residential and commercial area on Knik-Goose Bay Road and is comprised of three contiguous parcels. The Property contains two residential/office structures. Specific land uses in the Property's vicinity include homes and residential

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apartments, a tire and auto repair facility (former gasoline filling station), a restaurant, salon, and a fitness center.

2.5.3 Description of Improvements on the Property

Between 1951 and 1960 overhead power lines were constructed along a utility easement on the Property. In 2008, the majority of the Property was cleared of vegetation.

2.5.4 Past and Current Use of the Property

An aerial photograph from 1949 shows the Property to be vegetated and undeveloped. The Property remained undeveloped until 2008 when it was cleared of vegetation. Two residential/office structures were placed on the Property in 2008 and are used by Harman Excavating, Inc. which currently owns and occupies the Property.

2.5.5 Previous Environmental Assessments Conducted on the Property

According to ADEC records and the Property owner, Mr. Harman, no environmental assessments have been conducted for the Property.

2.5.6 Past and Current Use of Adjoining Properties

Based on our aerial photograph review (see Section 2.7.1), the parcel adjacent south of the Property was commercially developed with a fuel service station between 1981 and 1985. The fuel station operated on the parcel until 1994. It appears as though an air strip operated on the parcel east of the Property, beyond Knik-Goose Bay Road, in the 1980s. Between 2003 and 2006, residential structures were constructed east and northeast of the Property. Parcels in the Property's vicinity continue to be used for commercial and residential purposes.

2.6 User-Provided Information

The following information was provided by Ms. Jones, as a representative of Legacy, the potential purchaser of the Property.

2.6.1 Environmental Liens

Environmental liens were not identified on the Property.

2.6.2 Questionnaire

A user questionnaire was completed by Ms. Jones. Ms. Jones stated that she does not know of spills or other releases of petroleum products, oil, chemicals, solvents, or other hazardous materials at the Property or adjoining parcels. According to Ms. Jones, she is not aware of any obvious indicators pointing to the presence or likely presence of contamination at the Property. The completed Phase I ESA Questionnaire is included in Appendix B.

2.7 Records Review

The purpose of the records review was to identify previous activities that may have constituted environmental misuse and/or contributed to the presence of waste residuals at the Property. Standard Environmental Record Sources and the Additional Environmental Record Sources identified in ASTM E 1527-05 were reviewed to the extent reasonably ascertainable and likely to be useful.

2.7.1 Historical Use Information

Two methods were used to verify previous land use: review of historical aerial photographs and review of available land ownership information.

Aerial Photographs

Aerial photographs from Aero-Metric, Inc. were reviewed to evaluate prior and present land use in this area. The photographs depicting significant changes in the Property development are described below. Of the aerial photos that illustrate significant land use patterns, three were chosen to print. The photos that are included in this report are from 1951, 1985, and 2012. These photos are included as Figures 3 through 5, respectively, and are each enlarged to an approximate scale of 1 inch equals 250 feet. Although not chosen to print, photos from the years 1949, 1960, 1974, 1975, 1981, 1992, 1999, 2003, and 2006 were also reviewed. The approximate Property boundary is shown in red on the photographs for reference.

In the 1949 aerial photograph, the Property and adjacent parcels are vegetated and undeveloped. What appear to be wetlands are visible in the northern portion of the Property at the approximate location shown on Figure 2.

The August 10, 1951 aerial photograph is included as Figure 3. Trees have been cleared along the Property's eastern boundary. In addition, a portion of land in the southeast corner of the Property has been cleared of vegetation. Knik-Goose Bay Road is visible southeast and south of the Property and appears to be unpaved. What appears to be a residential structure is present near the southwest corner of the Property. Additional structures are visible south of the

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Property, beyond Knik-Goose Bay Road. The remaining parcels appear similar to the 1949 photograph.

In the aerial photograph from 1960, the northeast-southwest oriented overhead power line utility easement that bisects the Property is visible. The remaining parcels appear similar to the 1951 aerial photograph.

In the aerial photographs from 1974, 1975, and 1981 a parcel adjacent south of the Property has been cleared of vegetation, although no structures are present. The remaining parcels appear similar to the 1960 aerial photograph.

The May 22, 1985 aerial photograph is included as Figure 4. A trail is visible north of the Property's power line utility easement. The trail is generally parallel to the easement and extends the length of the Property. In addition, two trails are visible south of the utility easement. The western trail appears to provide access to the adjacent south of the Property. The eastern trail leads to a clearing within the Property. Note the trails are not visible in the aerial photograph from 1992. A parcel adjacent south of the Property has been developed with structures that appear to be the Knik Texaco service station. Multiple vehicles are visible on the parcel. Areas of discolored soil are visible near the southwest corner of the Property. South of the Property, beyond Knik-Goose Bay Road, what appear to be residential and commercial structures have been completed. What appears to be an air strip is visible east of the Property, beyond Knik-Goose Bay Road. The remaining parcels appear similar to the 1981 aerial photograph.

In the aerial photograph from 1999, multiple connex storage containers or trailers are visible along the northern edge of the on-Property overhead power line utility easement and a soil stockpile is visible along the southern edge. The trailers and stockpile appear to be associated with utility upgrades. East of the Property, Frank Smith Way has been constructed. Areas of discolored soil are visible adjacent north of the eastern Knik Texaco service station structure. The remaining parcels appear similar to the 1985 aerial photograph.

In the aerial photographs from 2003 the on-Property trailers and stockpile are no longer visible along the easement. In the aerial photograph from 2006, residential structures have been constructed east and northeast of the Property. The remaining parcels appear similar to the 2003 aerial photograph.

The August 28, 2012 aerial photograph is included as Figure 5. The majority of the Property has been cleared of trees leaving behind shrubs and grasses. An unpaved road, oriented southeast-northwest, is visible in the eastern portion of the Property. Brush piles and soil stockpiles are visible on the Property near the southern and northeastern boundaries. Heavy equipment, at least seven connex storage containers, and two structures are visible in the eastern portion of the Property. The Property and adjacent parcels appear much as they did during the March 4, 2013 site visit (see Section 2.8).

Public Ownership Documents

The Alaska Department of Natural Resources (ADNR) Recorders Office database was reviewed on March 19, 2013 to gather historical information about the Property ownership. A summary of the ownership documents beginning in 1993 is listed below, with copies included in Appendix C.

- Corporation Quit Claim Deed recorded February 26, 1993. The east ½ of the northeast ½ of Section 16, Township 17 North, Range 1 West, Seward Meridian was conveyed from the Federal Deposit Insurance Corporation to Randy Harman.
- Quitclaim Deed recorded April 26, 1999. The east ½ of the northeast ½ of Section 16, Township 17 North, Range 1 West, Seward Meridian was conveyed from Randy Harman to Harman Excavating, Inc.
- Quitclaim Deed recorded December 29, 1999. The south ½ west ½ northeast ¼ of Section 16, Township 17 North, Range 1 West, Seward Meridian was conveyed from Randy Harman to Harman Excavating, Inc.
- Plat Map recorded November 24, 2004. The east ½ of the northeast ½ of Section 16, Township 17 North, Range 1 West, Seward Meridian was platted into the Center Point Subdivision. The Property is platted as Tract A of the Center Point Subdivision and is owned by Harman Excavating, Inc.
- Plat Map recorded October 24, 2007. The Property is platted as Tract A-1 and Tract A-2 of Center Point Subdivision and is owned by Harman Excavating, Inc.
- Quit Claim Deed recorded March 18, 2011. The City of Wasilla conveyed the West ½ of the Northeast ¼ of Section 16, Township 17 North, Range 1 West, Seward Meridian described as Tract 1 to Harman Excavating, Inc.
- Plat Map recorded June 21, 2011. Tracts A-1 and A-2 are replatted to become Tracts A-1A and A-2A and Lot 10, Block 3, Center Point Subdivision Phase 4. The Property is identified as Tract A-1A and Tract A-2A and is owned by Harman Excavating, Inc.

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2.7.2 Physical Setting

Geologic, hydrogeologic, hydrologic, and topographic characteristics of the Property were researched to further develop an understanding of the previous and current uses of the Property and surrounding area.

Groundwater Characteristics

The local groundwater flow direction and gradient were not established as part of this project. Based on institutional knowledge and data available from the ADEC database regarding adjacent parcels, the groundwater flow direction is likely to the southwest.

The State of Alaska Well Log Tracking System (WELTS) was researched to provide information about drinking water wells on or near the Property. The WELTS database, reviewed on April 5, 2013, does not identify drinking water wells on the Property. However, according to Mr. Randy Harman, owner of the Property, a water well is located is located west of the residential/office structures as shown on Figure 2. The completed well log is included in Appendix D.

Soils/Geology

Information used in this discussion of soils and geology was provided by the Alaska Geological Society. The surface elevations in the MSB range from sea level where the Knik River and Matanuska River enter the Cook Inlet, to greater than 6,000 feet in the peaks that bound the area. The land in this area generally slopes toward the Knik Arm.

Glacial moraine and outwash deposits primarily mantle the surface of the Matanuska-Susitna Valley. The terrain is dominated by distinctive landforms created by repeated glacial advances and retreats during the Pleistocene epoch.

Based on data collected during the Limited Phase II ESA (see Section 3.2), the subsurface material in the borings comprised of gravelly sand to sandy gravel with varying silt content. Groundwater was encountered in Borings B5, B6, and B7 at 6.8 feet below ground surface (bgs), 13.9 feet bgs, and 9.2 feet bgs, respectively. Groundwater was not encountered during drilling of Borings B1 though B4, which extended to a depth of 9.5 feet bgs. The boring locations are shown on Figure 2.

Historical Maps

A 1992 USGS 1:25,000 Topographic Map was reviewed, and the portion of the map showing the Property and vicinity is included as Figure 1. The Property and adjacent parcels to the north, east, and west are mapped and undeveloped and vegetated. Two wetlands are depicted on the northern portion of the Property. Four structures are depicted adjacent south of the Property. Knik-Goose Bay Road is visible along the Property's south and southeastern boundary. A gravel pit and landing strip are mapped south of the Property, beyond Knik-Goose Bay Road.

A 1950 USGS 1:63,360 Topographic Map was also reviewed. The Property and adjacent parcels to the north, east, and west are mapped as vegetated. Knik-Goose Bay Road is visible along the Property's south and southeastern boundary.

2.7.3 Regulatory Database Search

Federal and state database records were researched on April 4, 2013 for pertinent information regarding the environmental condition of the Property and adjacent parcels. In addition, local agency sources were contacted as part of the database search. This database search complies with ASTM E 1527-05, with the exceptions noted in Section 1.3.

Federal Records Sources

The National Priorities List (NPL) specifies those properties assigned the Environmental Protection Agency's (EPA) highest cleanup priority. The EPA website was reviewed for NPL sites in Alaska on April 4, 2013. There are no listed NPL sites in the Wasilla area.

The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) is also compiled by the EPA and includes sites the EPA has investigated or is currently investigating for potential hazardous substance contamination for possible inclusion on the NPL. According to the CERCLIS list, searched on April 4, 2013, no CERCLIS sites are located in the Wasilla area.

According to the EPA Region 10 report, reviewed on April 4, 2013, there are no Resource Conservation and Recovery Act (RCRA) treatment, storage, or disposal (TSD) facilities subject to corrective action (CORRACTS) within 1 mile of the Property. TSD facilities not subject to corrective action (NONCORRACTS) are not located within 0.5 mile of the Property. There are no listed hazardous materials TSD facilities in the Wasilla area.

The Emergency Response Notification System (ERNS) lists reported hazardous substance releases in quantities greater than the reportable quantity. As of April 4, 2013, the Property is not listed on the ERNS list.

As of April 4, 2013, there are no EPA Brownfield Assessment, Cleanup, and Revolving Loan Fund Grantees in Wasilla.

State Records Sources

The ADEC Spills List was reviewed on April 4, 2013 for information regarding spills on the Property. This list does not include the Property.

The State Landfill/Solid Waste Disposal Site List was reviewed on April 4, 2013. According to the ADEC's Solid Waste Management database, no landfills or solid waste disposal sites are identified within 0.5 mile of the Property. However, based on institutional knowledge, the former Knik-Wasilla Sanitary Landfill was located approximately 1,325 feet west of the Property as depicted on Figure 2. Because the groundwater flow direction generally to the south, contamination associated with the former landfill is unlikely to impact the Property. The Smith Ballfield sports complex is currently located at the former landfill site.

Registered Underground Storage Tank Database

The ADEC registered Underground Storage Tank (UST) records, available on the ADEC website were viewed on April 4, 2013. Information regarding the registered UST sites listed on the database in summarized in Table 1. The Property is not listed as a UST site on the ADEC database. One UST site was identified within 0.25 mile of the Property and is located adjacent south of the Property at 1800 South Knik-Goose Bay Road. According to the ADEC UST database, three 6,000-gallon gasoline and one 6,000-gallon diesel tank were "removed from ground" and one 12,000-gallon and one 10,000-gallon gasoline tank are "currently in use."

Leaking Underground Storage Tank Database

The ADEC's Leaking Underground Storage Tank (LUST) database was reviewed on April 4, 2013 for information regarding LUST sites within 0.5 mile of the Property. The ADEC records indicate that the Property is not listed as a LUST site. Information regarding the LUST sites listed on the database is summarized in Table 2. There is one LUST site located within 0.5 mile of the Property. The Knik Texaco Service site (aka Texaco – 1.5 Mile Knik Road and Knik Tire & Auto) is an "active" LUST site and is located adjacent south of the Property at 1800 Knik-Goose Bay Road. The site was added to the database in 1992 when dumped waste oil was discovered behind the on-site building. A second database entry was added in 1993 when.

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during a site inspection, gasoline contamination was observed at a dispenser. In April 1994, the fuel storage tanks, piping, and approximately 115 cubic yards of gasoline-contaminated soil were removed. Groundwater monitoring wells were installed in 1994 and 2006. Analytical groundwater samples routinely contain benzene concentrations greater than the ADEC Table C cleanup level in one or more wells. This site remains "active." A vehicle repair facility, restaurant, salon, and fitness center currently operate on this parcel.

Contaminated Sites Database

The ADEC Contaminated Sites database was reviewed on April 4, 2013, for sites within 1 mile of the Property. This list is assumed to be equivalent to a State Hazardous Waste Sites list, as required by ASTM E 1527-05. The ADEC records indicate that the Property is not listed as a contaminated site. Five contaminated site are located within 1 mile of the Property. Information regarding the contaminated sites located within 1 mile of the Property is summarized in Table 3.

The closest "active" contaminated site, located approximately 5,200 feet northeast of the Property, is the Dodge Electric/Fall Equipment Company site at 101 East Swanson Avenue. According to the ADEC database, numerous waste oil spills and extensive staining have been documented around on-site fuel pumps. The site remains "active."

The remaining contaminated sites are located 5,000 feet or more from the Property, or are listed as "cleanup complete" on the ADEC database. A detailed evaluation of these sites was outside the scope of this assessment, and we cannot form definitive opinions regarding their potential impact to the Property. Based on our experience, however, it is unlikely these sites will impact the Property based on considerations of regulatory status; distance to the Property; typical release, fate, and transport mechanisms; and the ADEC's assessed cleanup priorities.

Local Records Sources

The City of Wasilla Public Works Department (PWD) was contacted on April 8, 2013 to gather information about water and sewer mains in the area. According to the PWD, water and sewer services are stubbed to the Property, but the Property is not currently connected.

ENSTAR as-build records were researched to determine when natural gas service was available to the Property and adjacent parcels. According to ENSTAR records, a natural gas main running north-south along the Property's eastern boundary was installed in 1990. The records indicate the Property is not currently connected to natural gas service.

2.8 Site Reconnaissance

A Shannon & Wilson representative (Ms. Jennifer Simmons) accompanied by Mr. Harman (Property owner), Mr. Terry Ellis (Mr. Harman's broker), and Mr. Kevin Prange (potential purchaser representative) visited the Property grounds on March 4, 2013 to observe and document potential sources or impacts of petroleum hydrocarbons and/or hazardous substances. Significant findings observed during the site reconnaissance activities are reported below. Photographs taken during the site reconnaissance activities are included in Appendix D.

2.8.1 **Property Grounds Evaluation**

Two residential/office structures are currently located in the eastern portion of the Property (Photo 1 and Figure 2). According Mr. Harman, the structures are not permanent and are therefore not included in the proposed Property transaction. As a result, Shannon & Wilson did not observe the interior of the structures. The structures are serviced by heating oil stored in aboveground storage tanks (AST) located adjacent to the structures (Photos 1 and 2). No evidence of leaks and/or spills associated with the ASTs were observed during the March 4, 2013 site visit, although snow cover precluded a comprehensive visual assessment of the ground surface

The Property's septic system leach field is located south of the structures as shown in Photo 1. The Property is serviced by a drinking water well located west of the residential/office structures as shown on Figure 2 and Photo 3.

A 55-gallon drum used as a burn barrel was observed east of the southern residential/office structure (Photo 4). At the time of the site visit, the burn barrel was empty. A visual assessment of the ground surface of the burn barrel could not be conducted due to snow cover.

Four connex storage containers are located north of the residential/office structures (Photo 5). According to Mr. Harman, the connex containers are used to store tools and building materials. Note the interior of the connex containers was not observed during the site visit.

One connex storage container and a delivery truck are located west of the residential/office structures. General tools and building materials were observed in the delivery truck. Numerous empty 5-gallon buckets (Photo 6) were observed in the connex storage container. In addition, four 55-gallon drums were observed in the connex (Photo 7). Two of the 55-gallon drums were empty, one drum reportedly contained used oil, and one drum reportedly contained antifreeze. Surface stains were observed on the wood floor of the connex storage

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska

container. According to Mr. Harman, used oil generated on the Property is temporarily stored in 55-gallon drums then taken to an off-site facility.

Heavy equipment is stored southwest of the residential/office structures. Areas of discolored soil were observed under multiple pieces of equipment (Photos 8 and 9). Note that snow cover precluded a comprehensive visual assessment of the ground surface.

What appear to be discarded materials including tires, pallets, and miscellaneous building materials are stored in the northeast portion of the Property (Photo 10). Various debris litter was observed along the Property southern boundary.

Overhead power lines oriented northeast-southwest bisect the central portion of the Property as shown on Figure 2. The remaining portions of the Property are undeveloped with the exception of unpaved roads that provide access throughout the Property (Photo 11).

2.8.2 Surrounding Properties Evaluation

Residential structures are located east and northeast of the Property. Two commercial structures are located adjacent south of the Property. An auto repair and tire facility occupy the eastern commercial structure which was previously used as a filling station. A multi-tenant structure containing a restaurant, salon, and fitness studio occupy the western commercial structure. Two residential structures are located near the southwest corner of the Property.

2.8.3 Hazardous Substances and Petroleum Products

The residential/office structures are serviced by heating oil stored in ASTs. Evidence of leaks and/or spills associated with the ASTs was not observed during the March 4, 2013 site visit. Note that the ASTs are located directly under the eve of each structure. It is our experience that snow and/or ice sliding from the roof can damage the distribution line associated with the ASTs resulting in a fuel spill.

A partially filled 55-gallon drum containing used oil was observed in a connex storage container west of the structures. Surface stains were noted on the wood floor of the connex storage container.

2.8.4 Storage Tanks

The Property's residential/office structures are serviced heating oil stored in ASTs as shown in Photos 1 and 2. Evidence of leaks and/or spills associated with the storage tanks was not observed during the March 4, 2013 site visit.

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2.8.5 Drums

A 55-gallon drum used as a burn barrel was observed east of the southern residential/office structure (Photo 4). At the time of the site visit, the burn barrel was empty. In addition, four 55-gallon drums were observed in the connex (Photo 7). Two of the 55-gallon drums were empty, one drum reportedly contained used oil, and one drum reportedly contained antifreeze. According to Mr. Harman, used oil generated on the Property is temporarily stored in 55-gallon drums then taken to an off-site facility.

2.8.6 Asbestos-Containing Materials

Permanent structures are not currently located on the Property. According to Mr. Harmon, the residential/office structures are not included in the proposed property transaction and were therefore not assessed for asbestos-containing materials (ACMs).

2.8.7 **Polychlorinated Biphenyls**

No transformers were observed on the Property. It is noted that the electric utility is typically responsible for releases from their transformers or equipment.

2.8.8 Solid Waste Disposal

Based on our visual observations during the March 4, 2013 site visit, it appears that the Property is used to store discarded materials.

2.9 Interviews

2.9.1 Government Official

On April 8, 2013, Mr. Robert Weimer, Project Manager at the ADEC Division of Contaminated Sites, was contacted. Mr. Weimer is the project manager for the "active" LUST site located at 1800 Knik-Goose Bay Road, adjacent south of the Property. According to Mr. Weimer, "the extent of the soil and groundwater has not been defined and could extend to the Property."

2.9.2 Current Owners / Occupants of the Property

Mr. Harman was interviewed on March 4, 2013 during the site visit. Mr. Harman stated that the wetlands mapped on the Property have not been "wet" since his ownership in 1993. Mr. Harman stated that permanent structures have not been constructed on the Property. According to Mr. Harman, off-site fill has not been placed on the Property. Mr. Harman has excavated

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska

gravel from one portion of the Property and moved it to a nearby portion of the Property to show potential purchasers the on-site gravel. Mr. Harman stated that incidental leaks and/or drips from equipment have occurred on the Property. Mr. Harman stated that he uses drip pans or sorbent pads as needed. The completed interview log is included in Appendix B.

2.9.3 Adjacent Parcel Owner / Occupant

An attempt was made to Mr. Kevin Peterson. Mr. Peterson owns the Knik Texaco service property, adjacent south of the Property. Our effort to interview Mr. Peterson was unsuccessful.

2.10 Other Environmental Risk Considerations

High Voltage Power Lines. Overhead power lines were observed on the Property during the March 4, 2013 site visit at the approximate location shown on Figure 2.

Lead in Drinking Water. According to Mr. Harman, the Property is serviced by a private drinking water well (See Section 2.7.2 and Photo 3). Mr. Harman was not aware of whether the water has been tested for lead.

Wetlands and Surface Waters. According to the U.S. Army Corps of Engineers and the EPA, wetlands are defined as areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Three indicators are used to identify wetlands: (1) vegetation, (2) soil, and (3) hydrology.

According to the U.S. Fish and Wildlife Service (USFWS) National Wetlands Inventory map, viewed on April 4, 2013, freshwater emergent and freshwater forested/shrub wetlands are present on the Property.

According to the Matanuska-Susitna Borough, spring fen wetlands are present on the Property at the approximate locations also mapped by the USFWS. The approximate locations of the wetlands are shown on Figure 2.

Cultural, Historic, and Archeological Resources. It is unlikely that there are recorded cultural, historic, or archeological sites on the Property. The National Register of Historic Places is the Nation's official list of cultural resources worthy of preservation. This register does not list any cultural resource sites or cultural resource districts located on the Property.

Threatened and Endangered Species. According to the USFWS database viewed April 4, 2013, 16 threatened and/or endangered animal species and one endangered plant species exist in Alaska. Five animal species are considered endangered by the Alaska Department of Fish and Game, Division of Wildlife Conservation. These federal and state listed species are not found in the Wasilla area.

Wildlife Sanctuaries and Other Natural Resource Preserves. The USFWS database, viewed April 4, 2013, does not list the Property as a wildlife sanctuary.

3.0 LIMITED PHASE II ESA

The purpose of the Limited Phase II ESA was to evaluate whether the Property's soil has been impacted by the RECs identified during the Phase I ESA. The Limited Phase II ESA activities consisted of advancing seven borings. Utility locates were requested prior to implementing field activities.

3.1 Field Activities

Seven soil borings, designated Borings B1 through B7, were advanced on March 18, 2013 by Discovery Drilling Inc. (Discovery) of Anchorage, Alaska. Borings B1 and B2 were advanced within the heavy equipment storage area in the eastern portion of the Property. Boring B3 was positioned west of the on-site septic system leach field. Boring B4 was advanced west of the residential/office structures. Boring B5 was positioned within the over head power line utility easement. Borings B6 and B7 were advanced near the southern Property boundary near the adjacent LUST site. The approximate locations of the soil borings are shown on Figure 2 and site photographs are included in Appendix E.

Drilling was performed by Discovery using a truck-mounted CME 75 drill rig with a 4.25-inch inside diameter hollow stem auger. Borings B1 through B5 and B7 were advanced to 9.5 feet bgs. Borings B6 was advanced to 14.5 feet bgs. Drilling was suspended once groundwater was encountered. A Shannon & Wilson field representative was present during field activities to identify the boring locations, log the materials encountered during drilling, and screen and sample subsurface soils. This information is presented on the individual boring logs presented in Appendix F as Figures F-1 through F-7. Photographs documenting field activities are provided in Appendix E.

Samples were collected using split-spoon samplers at 2.5-foot intervals. Each sample was visually classified and "screened" for volatile organic compounds using a photoionization detector (PID) and an ADEC-approved headspace screening method. The PID was calibrated before screening activities with 100 parts per million (ppm) isobutylene standard gas. The field

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska

screening samples were collected in re-sealable bags, warmed to a common temperature, and tested within 60 minutes following collection.

With the exception of Boring B6, one analytical soil sample was collected from each boring. Two analytical soil samples were collected from Boring B6. The analytical soil samples were generally selected based on the highest headspace screening results. However, the analytical soil sample from Boring B7 was selected from the soil/groundwater interface and not from the interval with the highest headspace screening result to investigate potential contamination associated with the adjacent LUST south of the Property. Shannon & Wilson's field representative used clean stainless steel spoons and new nitrile gloves to collect soil from the split-spoon and place the soil in laboratory-supplied containers. Table 4 presents a description of the soil sample locations, depth, headspace results, and sample classifications.

After soil sampling, each boring was backfilled with the soil removed from that boring and the surface was restored to match the existing grade.

3.2 Subsurface Conditions

The subsurface material in the borings comprised of gravelly sand to sandy gravel with varying silt content. Groundwater was encountered in Borings B5, B6, and B7 at 6.8 feet below ground surface (bgs), 13.9 feet bgs, and 9.2 feet bgs, respectively. Groundwater was not encountered during drilling of Borings B1 though B4, which extended to a depth of 9.5 feet bgs

3.3 Laboratory Analysis

Analytical soil samples were submitted to SGS North America, Inc. (SGS) of Anchorage, Alaska using chain-of-custody procedures. Each soil sample was analyzed by SGS for gasoline range organics (GRO) by Alaska (AK) Method AK 101, diesel range organics (DRO) by AK 102, residual range organics (RRO) by AK 103, and aromatic hydrocarbons (BTEX) by EPA Method 8021B. The four samples with the highest headspace screening results were tested for volatile organic compounds (VOCs) by EPA Method 8260B. In addition, the analytical samples collected from the heavy equipment storage and along the southern Property boundary were tested for Resource Conservation and Recovery Act (RCRA) metals by EPA Method 6020.

For quality control purposes, one soil trip blank was included in the sampling program and analyzed for GRO by AK 101 and VOCs by EPA 8260B. The SGS laboratory report is included in Appendix G.

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3.4 Discussion of Analytical Results

Eight soil samples and one field duplicate sample were submitted for laboratory analysis. The soil analytical results were compared to the most stringent ADEC Method 2 cleanup level listed in Tables B1 and B2 for the "under 40-inch (precipitation) zone" (18 Alaska Administrative Code [AAC] 75, April 2012). A summary of the soil sample analytical results and applicable cleanup levels are provided in Table 5.

3.4.1 **Project Samples**

Concentrations of GRO, DRO, and RRO were not detected in the project samples. Estimated concentrations of eight VOCs were detected in the project samples but at concentrations less than the ADEC Method 2 cleanup levels.

Sample B6S4 contained a concentration of arsenic greater than the most stringent ADEC cleanup criterion. However, the arsenic concentration is generally consistent with typical background concentrations of the area. The remaining samples did not contain metals concentrations greater than the ADEC Method 2 cleanup levels.

3.4.2 Quality Control Samples

The project laboratory follows on-going quality assurance/quality control procedures to evaluate conformance to applicable ADEC data quality objectives (DQO). Internal laboratory controls to assess data quality for this project include surrogates, method blank, matrix spike/matrix spike duplicates (MS/MSD), and laboratory control sample/laboratory control sample duplicates (LCS/LCSD) to determine precision, accuracy, and matrix bias. If a DQO was not met, the project laboratory provides a report specific note identifying the problem in the Case Narrative section of their Laboratory Analysis Report (See Appendix G).

External quality controls included a soil trip blank which accompanied the sample containers from the laboratory to the site during sampling activities and back again to SGS. An estimated (J-flagged) GRO concentration was reported in the trip blank. Project samples with reported GRO concentrations within five times the GRO concentration measured in the trip blank are flagged in Table 5.

Based on our review of the SGS data report, the project data meet DQOs. No nonconformances that would adversely affect data usability were not noted by the laboratory.

4.0 FINDINGS AND CONCLUSIONS

The potential hydrocarbon and hazardous substances sources identified by our Phase I ESA are summarized below, along with conclusions from our Limited Phase II ESA.

4.1 Phase I ESA Summary

We have performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E 1527-05, for Property at 1802 Knik-Goose Bay Road, Wasilla, Alaska. Exceptions to, or deletions from, this practice are described in Section 2.2 of this report.

Multiple environmental conditions were identified at the Property. Based on our opinion regarding the potential for a release, material threat of a release, or other threat to human health and the environment, we have classified the conditions as RECs, Historical RECs, or Other Environmental Conditions.

4.1.1 Recognized Environmental Conditions

A REC is the presence or likely presence of a hazardous substance or petroleum product under conditions that indicate an existing release, a past release, or a material threat of a release into structures on the Property or into the Property's ground, groundwater, or surface water. This assessment revealed no evidence of RECs in connection with the Property and the surrounding parcels.

On-Site Recognized Environmental Conditions

General vehicle/equipment maintenance is conducted on the Property. Leaks and/or spills of fluids associated with maintenance activities could impact the Property's soil and/or groundwater. Surface stains, likely attributable to petroleum product releases, were observed in the heavy equipment storage area. Snow cover precluded a comprehensive visual assessment of the ground surface.

Four 55-gallon drums were observed in the connex storage container west of the residential/office structures. Two of the 55-gallon drums were empty, one drum was partially filled with used oil, and one drum reportedly contained antifreeze. Surface stains were observed on the wood floor of the connex storage container. There is a potential that used oil and/or other products spilled on the wood floor have leaked beneath the wood floor and impacted the ground surface.

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Off-Site Recognized Environmental Conditions

The Knik Texaco Service site (aka Texaco – 1.5 Mile Knik Road and Knik Tire & Auto) is an "active" LUST site and is located adjacent south of the Property at 1800 Knik-Goose Bay Road. The site was added to the database in 1992 when dumped waste oil was discovered behind the on-site building. The site was added to the database a second time in 1993 when gasoline contamination was encountered beneath a fuel dispenser. According to the ADEC project manager, the soil and groundwater contamination associated with this site has not been delineated and could impact the Property. In addition, two gasoline underground storage tanks (USTs), one 12,000-gallon and one 10,000-gallon, are currently in use. Releases from the active USTs and vehicle repair operations could potentially impact the Property.

4.1.2 Historical Recognized Environmental Conditions

A Historical REC is an environmental condition that may have constituted a REC in the past, but has been closed by a regulatory agency or otherwise is no longer considered to pose a material threat. No on-site or off-site historical RECs were identified.

4.1.3 Other Environmental Considerations

Other Environmental Conditions include known, suspected, or potential sources of hazardous substances or petroleum products that are not considered RECs due to (a) the absence of a confirmed release or other material threat, (b) insufficient information to sufficiently evaluate the condition, (c) de minimis conditions that are not expected to be subject to regulatory action or (d) exclusion from the ASTM definition of hazardous material (e.g. ACM). The following Other Environmental Conditions were identified on the Property.

The Property is used to store unused and/or discarded materials (i.e. tires, miscellaneous building materials, numerous empty chemical storage containers) that may be classified as solid waste per state and federal environmental regulations.

The site has an on-site septic tank and leach field. This system could pose environmental risk if chemicals are disposed through the structures' sinks and toilets.

The Property's structures are serviced by heating oil stored in ASTs. It is possible that releases from active fuel storage tanks could impact the Property's soil and/or groundwater. Evidence of leaks and/or spills associated with the ASTs was not observed during the March 4, 2013 site visit. Note that the ASTs are located directly under the eave of each structure. It is our experience that snow and/or ice sliding from the roof can damage the distribution line associated with the ASTs resulting in a fuel spill.

A burn barrel was observed west of the residential/office structures. There is a potential that petroleum products were used to ignite materials in the burn barrel. There is also a potential that the process of burning debris resulted in the release of contaminants. A visual assessment of the ground surface of the burn barrel could not be conducted due to snow cover.

Wetlands are present on the Property. If construction is to occur, a wetland delineation and other associated permits may be required prior to construction activities.

4.2 Limited Phase II ESA Summary

As part of our Limited Phase II ESA, seven borings were advanced and sampled for petroleum hydrocarbons, VOCs, and RCRA metals. Arsenic was measured in one soil sample at a concentration that exceeds the ADEC Method 2 cleanup level. Concentrations of GRO, DRO, and RRO were not detected in the project samples. Estimated concentrations of eight VOCs were detected in the project samples but at concentrations less than ADEC Method 2 cleanup levels.

4.3 Conclusions

Seven borings were advanced to evaluate whether the Property's soil has been impacted by the RECs and other environmental conditions identified during the Phase I ESA portion of the project. The results of our limited Phase II ESA did not reveal evidence of a reportable release of petroleum hydrocarbons or other hazardous substances in the areas evaluated.

4.4 **Recommendatious**

The soil borings drilled as part of our limited Phase II ESA were placed to identify gross or ubiquitous contamination, or otherwise confirm the presence of a REC that may require significant resources to mitigate. In particular, conditions that pose the highest perceived risk and therefore warrant the highest priority/consideration for additional investigation are generally those that pose a complete exposure pathway and an immediate threat to human health or the environment. Based on this objective and Shannon & Wilson's understanding of your business risk considerations at the time of the Limited Phase II ESA, our scope included borings at discrete locations near the heavy equipment storage area, the on-site septic system leach field, the residential/office structures and associated heating oil tanks, and the southern Property boundary adjacent to the adjacent LUST site. Based on the results of the Limited Phase II ESA, gross contamination was not noted in the investigated areas and further investigation is not recommended for the purposes of identifying gross or ubiquitous contamination associated with those concerns.

Note that the results of the limited Phase II ESA notwithstanding, a potential remains for impacted media to be present at the site, although it is our opinion these media – if present – are likely de minimis in quantity. For example, samples were not collected directly from the observed surface stains beneath the heavy equipment near Borings B1 and B2. In addition, based on the absence of visible evidence of releases to the ground surface near the connex trailers, burn barrel, and areas used equipment maintenance, these Other Environmental Conditions were assigned lesser risk potential and were not evaluated during the Limited Phase II ESA. Finally, the presence of structures and equipment prevented a comprehensive visual assessment of the underlying surface. For each of these considerations, additional investigation may be desired, depending on Legacy's site assessment objectives and risk tolerance.

We understand the current Property owner, Mr. Randy Harmon, will be vacating the Property and removing the equipment, connex trailers, and residential/office structures and associated aboveground heating oil tanks from the site. In addition, Mr. Harmon intends to remove stained soil that is observed or releases that may occur during the removal of these items. We recommend an environmental professional be on site during the removal of the equipment, connex trailers, structures, and tanks to observe if there is stained soil or a release. We also recommend that the environmental professional collect characterization samples of the stained soil, if present, for disposal purposes and be prepared to collect confirmation samples from the soil following limited excavation. Note that if such characterization samples indicate the presence of contaminant concentrations greater than the applicable state or federal cleanup standards, agency notification may be required, regardless of the volume of affected media.

5.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

This Phase I Environmental Site Assessment was prepared by Ms. Jennifer Simmons under the direct supervision of Ms. Shayla Marshall, and Mr. Matt Hemry, P.E. These individuals have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Property, and they have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312. Shannon & Wilson declares that, to the best of our professional knowledge and belief, Ms. Marshall and Mr. Hemry meet the definition of "Environmental Professional" as defined in 40 CFR 312.10.

6.0 **CLOSURE/LIMITATIONS**

This report is an instrument of service prepared by Shannon & Wilson for the exclusive use of Legacy, herein referred to as the Client, and its affiliates. This report was prepared for the exclusive use of the Client for evaluating the Property as it relates to the environmental aspects discussed herein. The findings we have presented within this report are based on the limited

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska

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research, sampling, and analyses that we conducted at this site. They should not be construed as definite conclusions regarding the site's soil quality. It is possible that our soil tests missed higher levels of petroleum hydrocarbon and/or chlorinated solvent constituents, although our intention was to sample areas likely to be impacted. Moreover, the intent of this project is to obtain data that are representative of the subsurface conditions at the specific areas targeted for study. The data are not sufficient to characterize the entire site, potential sources areas that are not specifically targeted, or to delineate the extent of impacted media.

As a result, the analysis and sampling performed can provide you with only our professional judgment as to the environmental characteristics of this site, and in no way guarantees that an agency or its staff will reach the same conclusions as Shannon & Wilson, Inc. The data presented in this report should be considered representative of the time of our site assessment. Changes in site conditions can occur over time, due to natural forces or human activity. In addition, changes in government codes, regulations, or laws may occur. Because of such changes beyond our control, our observations and interpretations may need to be revised.

In order to create a report on which the Client can rely, Shannon & Wilson worked closely with the Client and their representatives to develop the scope of services upon which all subsequent tasks have been based. No party other than the Client and its affiliates is permitted by Shannon & Wilson to rely on this instrument of Shannon & Wilson's service, except as stipulated in Section 2.3. With the permission of the Client, Shannon & Wilson will meet with a third party, approved in writing by the Client, to identify the additional services required, if any, to permit such third party to rely on the information contained in this report. Such reliance by any third party is limited to the same extent of Client's reliance, and subject to the same contractual, technological and other limitations to which the Client has agreed.

Copies of documents that may be relied upon by our client are limited to the printed copies (also known as hard copies) that are signed or scaled by Shannon & Wilson with a wet, blue ink signature. Files provided in electronic media format are furnished solely for the convenience of the client. Any conclusion or information derived from electronic files shall be at the user's sole risk. If there is a discrepancy between the electronic files and the hard copies, or you question the authenticity of the report, please contact the undersigned.

Shannon & Wilson has prepared the attachments in Appendix H, "Important Information About Your Environmental Site Assessment/Evaluation Report" and "Important Information About Your Geotechnical/Environmental Report," to assist you and others in understanding the use and limitations of our report.

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska

We appreciate this opportunity to be of service. Please contact Shayla Marshall or the undersigned at (907) 561-2120 with questions or comments concerning the contents of this report.

Sincerely,





Matthew Hemry, P.E. Vice President

JDS:SIM/msh

Phase I and Limited Phase II ESA, 1802 Knik-Goose Bay Road, Wasilla, Alaska
Facility NameFacility IDStreet AddressOwner NameTankTank StatusCapacityTankApproximate DistancKnik Tire & Auto25401800 South Knik-GooseKevin C. Peterson1Tank removed from ground6,000GasolineAdjacent to the southKnik Tire & Auto25401800 South Knik-GooseKevin C. Peterson1Tank removed from ground6,000GasolineAdjacent to the southRoad and Knik Texaco1Tank removed from ground6,000GasolineAdjacent to the southService)2Tank removed from ground6,000GasolineService)3Tank removed from ground6,000DieselService)5Currently in Use12,000Gasoline6Currently in Use10,000Gasoline							Tank		
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5 Currently in Use 12,000 Gasoline 6 Currently in Use 10,000 Gasoline	Service)				4	Tank removed from ground	6.000	Diesel	
6 Currently in Use 10,000 Gasoline					5	Currently in Use	12,000	Gasoline	
					9	Currently in Use	10,000	Gasoline	

 TABLE 1

 REGISTERED UNDERGROUND STORAGE TANKS WITHIN A 0.25-MILE RADIUS

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May 2013

Table 1 / Page 1 of 1

SHANNON & WILSON, INC.

Facility Name	Street Address	Status	Hazard ID*	Office File ID**	Approximate Distance From Property
Knik Texaco Service (aka Knik Tire & Auto and Texaco - 1.5 Mile Knik Road)	1800 Knik-Goose Bay Road	Active	968	2265.26.017	Adjacent to the south
Texaco - 1.5 Mile Knik Road (aka Knik Tire and Knik Texaco Service)	1800 Knik-Goose Bay Road	Active	23488	2265.26.017	Adjacent to the south

LEAKING UNDERGROUND STORAGE TANK SITES WITHIN A 0.5-MILE RADIUS **TABLE 2**

Notes:

* The Hazard ID is assigned by the ADEC.
 * * The Office File ID is the ADEC file number.

Table 2 / Page 1 of 1

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May 2013

Facility Name and Street Address	Office File ID~	Status/Priority	Problem, as listed by ADEC*	Approximate Distance From Property
Alaska Dyeworks 300 West Swanson Street	No file number	Cleanup Complete	Discharge of Procion MX dyes, varying amounts of salt, Calgon water softener, soda ash, and synthrapol detergent into city sewer system. Alaska Dyeworks file is located in the CERCLA filing system with last correspondence dated 11/02/88 for status review of file. Last staff assigned was Kleweno.	5,000 feet north
Automotive Shop 651 Railroad Avenue	No file number	Cleanup Complete	Site consists of 3 underground storage tanks, 3 drums, surface oil stains, 3 floor sumps and an unknown pipe casing into a concrete floor. Unknown health or environmental damages. Lot B Doug Nielson Subdivision. Last staff assigned were Kiehl and Krieber.	5,000 feet northeast
National Bank of Alaska - Wasilla 581 West Parks Highway	2265.38.012	Cleanup Complete	Abandoned fuel oil tank leak. Groundwater contamination. Site assessment plan submitted 8/16/1991. Monitor wells installed. Have not received report of wells or assessment. Lot 12, Block 3, Snider Subdivision, Unit #4. Last staff assigned was Krieber.	5,000 feet northwest
Dodge Electric/Fall Equipment Co. 101 East Swanson Avenue	No file number	Active	Numerous extensive waste oil spills, extensive surface staining around fuel pumps. Tract B, Follet Industrial Tracts. LUST site also exists as Reckey 1988220012501, Event ID 1716, Facility ID 2496. Last staff assigned was Krieber (2/12/97).	5,200 feet northeast
Wasilla Machine Shop 300 North Willow Street	2265.38.018	Cleanup Complete	Petroleum products and solvents used in cleaning engines being discharged on to ground and down drains. Impact to human health, extent and amount of contamination unknown. Soil above DRO and TPH cleanup levels were excavated and on 8/2/1995, stockpiled off site at Lot A2, Replat of Tract A, 3rd Addition Butler Subdivision near Big Lake, Alaska. Lots 1, 2 and 3, Block 5, Wasilla Townsite. Last staff assigned were Krieber (2/12/97), Frechione and Sundet. See also CSRP database file "Wasilla Machine Shop" regarding the soil stockpiled off site at Lot A2, Replat of Tract A, 3rd Addition Butler Subdivision near Big Lake. Alaska.	5,200 feet northeast

* Narrative taken directly from ADEC summary statement in the on-line database. This summary may not fully describe the nature of the environmental concern and/or potential risk to human health safety, welfare, or the environment

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May 2013

SHANNON & WILSON, INC.

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Table 3 / Page 1 of 1

San	aple Number	Date	Sample Location (See Figure 2)	Depth (feet bgs)	Headspace (ppm)^^	Sample Classification** (see Figures F-1 through F-7)	
Soil S	amples						
	Boring B1						
*	BISI	3/18/2013	Heavy equipment storage (south)	0-2	1.4	Frozen to very dense, brown, sandy GRAVEL, moist	
	B1S2	3/18/2013	Heavy equipment storage (south)	2.5-4.5	1.2	Medium dense, brown, slightly silty, sandy GRAVEL - moist	
ĺ	B1S3	3/18/2013	Heavy equipment storage (south)	5-7	1.2	Verv dense, brown, slightly silty, sandy GRAVEL, moist	
í	B1S4	3/18/2013	Heavy equipment storage (south)	7.5-9.5	1.0	Very dense, brown, slightly silty, sandy GRAVEL: moist	
	Boring B2						
*	B2S1	3/18/2013	Heavy equipment storage (north)	0-2	1.3	Frozen to dense. brown, slightly silty sandy GRAVFI: moist	
	B2S2	3/18/2013	Heavy equipment storage (north)	2.5-4.5	1.3	Medium dense, brown, slightly silty, sandy GRAVEL, moist	
1	B2S3	3/18/2013	Heavy equipment storage (north)	5-7	0.8	Dense, brown, slightly silty, sandy GRAVEL: moist	
	B2S4	3/18/2013	Heavy equipment storage (north)	7.5-9.5	0.9	Very dense, brown, slightly silty, gravelly SAND; moist	
Ĩ	Boring B3						
	B3S1	3/18/2013	West of septic system leach field	0-2	ą	Sample not recovered	
	B3S2	3/18/2013	West of septic system leach field	2.5-4.5	0.1	Medium dense. dark brown. coarse SAND: moist	
	B3S3 .	3/18/2013	West of septic system leach field	5-7	0.4	Medium dense. dark brown. coarse SAND: moist	
*	B3S4	3/18/2013	West of septic system leach field	7.5-9.5	3.2	Medium dense. dark brown. coarse SAND: moist	
	B3S5	3/18/2013	Duplicate of Sample B3S3	2.5-4.5	0.1	Medium dense, dark brown, coarse SAND; moist	
1	Boring B4						
	B4S1	3/18/2013	West of residential/office structures	0-2	0.2	Frozen to medium dense, brown, gravelly, silty SAND; moist	
	B4S2	3/18/2013	West of residential/office structures	2.5-4.5	0.4	Dense, brown, slightly gravelly, silty SAND: moist	
*	B4S3	3/18/2013	West of residential/office structures	5-7	2.1	Medium dense, brown, slightly silty, coarse SAND; moist	
	B4S4	3/18/2013	West of residential/office structures	7.5-9.5	1.8	Very dense, brown, slightly silty SAND to gravelly SAND; moist	
*	B4S5	3/18/2013	Duplicate of Sample B4S3	5-7	2.1	Medium dense, brown, slightly silty, coarse SAND; moist	

SAMPLE LOCATIONS AND DESCRIPTIONS **TABLE 4**

Notes:

* = sample analyzed by the project laboratory (See Table 5)

field screening instrument was a Thermo Environmental Instruments 580B photoionization detector (PID)

** = sample classification applies to the portion of the specified interval from which the sample was collected

= measurement not recorded or not applicable

bgs = below ground surface ppm = parts per million

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Sar	nple Number	Date	Sample Location (See Figure 2)	Depth (feet bgs)	Headspace (ppm)^	Sample Classification*** (see Figures F-1 through F-7)
Soil S	amples Contin	ined				
	Boring B5			_		
*	B5S1	3/18/2013	Overhead power line easement	0-2		Frozen to dense. brown. sliphtly silty sandy GRAVEL: moist
	B5S2	3/18/2013	Overhead power line casement	2.5-4.5	î	Dense, hrown slightly silty sandy GRAVEL moist
	B5S3	3/18/2013	Overhead power line easement	5-6.8	•	Medium dense, brown, sandy GRAVEL; moist
	Boring B6					
	B6S1	3/18/2013	Near southern Property boundary	0-2	0.3	Frozen to dense, brown, slightly silty to slightly gravelly SAMD, moist
1	B6S2	3/18/2013	Near southern Property boundary	2.5-4.5	0.0	Dense. brown, slichtly silty gravelly SAND, moist
	B6S3	3/18/2013	Near southern Property boundary	5-7	0.2	Dense, brown, sliphtly silty, pravelly SAND to candy GRAVEL motiet
*	B6S4	3/18/2013	Near southern Property boundary	7.5-8.8	1.0	Medium dense. brown slightly silly sandy GRAVEI · moist
	B6S5	3/18/2013	Near southern Property boundary	10-12	0.0	Verv dense. brown, slightly silty sandy GRAVEI · moist
*	B6S6	3/18/2013	Near southern Property boundary	12.5-13.8	0.1	Dense, brown, silty, gravelly SAND, moist
	B6S9	3/18/2013	Duplicate of Sample B6S2	2.5-4.5	0.0	Dense, brown, slightly silty, gravelly SAND; moist
-	Boring B7					
1	B7S1	3/18/2013	Near southern Property boundary	0-2	0.7	Frozen to verv dense, brown, slightly silty sandy GRAVEL: moist
	B7S2	3/18/2013	Near southern Property boundary	2.5-4.5	0.5	Verv dense, brown, sliphtly silty, sandy GRAVEI - moist
	B7S3	3/18/2013	Near southern Property boundary	5-7	0.5	Verv dense. brown slightly silty sandy GRAVEI: moist
*	B7S4	3/18/2013	Near southern Property boundary	7.5-9.2	0.4	Verv dense. brown slightly stated arguelly SAND to sandy GRAVEL - moist
	B7S9	3/18/2013	Duplicate of Sample B7S3	5-7	0.5	Very dense, brown, slightly silty, sandy GRAVEL; moist
Qualit	ty Control San	iple				
*	STB	3/18/2013	Soil Trip Blank		•	Ottawa sand with methanol added in the laboratory

SAMPLE LOCATIONS AND DESCRIPTIONS **TABLE 4**

Notes:

* = sample analyzed by the project laboratory (See Table 5)

A = field screening instrument was a Thermo Environmental Instruments 580B photoionization detector (PID)

** = sample classification applies to the portion of the specified interval from which the sample was collected

= measurement not recorded or not applicable

bgs = below ground surface ppm = parts per million

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SUMMARY OF SOIL ANALYTICAL RESULTS TABLE 5

				Sample	: ID Number	^ and Collect	tion Depth in	Feet (See Ta	able 4, Figure	2, and Appel	ndix F)	
						Soil	Boring Sam	ples				JU
		Cleanup	BISI	B2S1	B3S4	B4S3	B4S5~	BSSI	B6S4	B6S6	B7S4	TR
Parameter Tested	Method	Level*	0-2	0-2	7.5-9.5	5-7	5-7	0-2	7 5-8 9	12 5-13.8	75-05	2
Headspace Reading - ppm	OVM 580B		1.4	1.3	3.2	2.1	2.1	4	1	0.1	0.4	
Gasoline Range Organics (GRO) - mg/kg	AK 101	300	<1.85	<1.02	<1.41	<2.94 B	<1.55	<1.31	<1.96 B	<2 93 B	<1 55	0 785 1
Diesel Range Organics (DRO) - mg/kg	AK 102	250	<12.7	<12.7	<13.4	<12.7	<12.7	<12.6	<12.8	<13.8	<13.7 7	r
Residual Range Organics (RRO) - mg/kg	AK 103	10,000	<12.7	<12.7	<13.4	<12.7	<12.7	<12.6	<17.8	<13.8	13.7	
RCRA Metals							i	0.2.1	0.715	0.01	1.01~	
Arsenic - mg/kg	SW 6020	3.9	3.16	3.32		a	4	515	\$ 18			
Barium - mg/kg	SW 6020	1,100	45.2	47.0		4		67.5	58.8			e l
Cadmium - mg/kg	SW 6020	S	0.187	0.267		4	,	0 248	0.770			
Chromium - mg/kg	SW 6020	25	14.3	15.9		,	ŭ	18.4	2/2/2			
Lead - mg/kg	SW 6020	400	2.78	2.91	4	à	j	2 86	3.04	6 4	6.2	
Mercury - mg/kg	SW 6020	1.4	0.0613	0.0551	,	,	,	1 77 20 0	0.0446			
Selenium - mg/kg	SW 6020	3.4	<0.278	0.140 J	4	1	J	0 167 1	826.02			
Silver - mg/kg	SW 6020	11.2	<0.0574	0.0399 J		1	1	0.0452.1	0.0571.1			
Aromatic Volatile Organics (BTEX)												
Benzene - µg/kg	EPA 8021/B8260B	25	<9.60	5 63 1	CE 12	CP 0>	96.92	16.06	1 06 9	000	10.01	000
Ethylbenzene - μg/kg	EPA 8021/B8260B	6.900	<19.2	<10.7	<14.6		C 912	126	C C1/	00.62	20.24	<1.8U
Toluene - ug/kg	EPA 8071/B8260B	6 500	<10.7	101	2116	C.01/	7.012	0.014	7.71	C.012	1.01>	0.01>
Xylenes (total) - ug/kg	EPA 8021/B8260B	63 000	1 1 8 9	4012	0.412	10.5	7.01	0.012	21212	<18.3	<16.1	<15.6
Volatile Organic Compounds (VOC)				i	7.000	0.00	7:14/	0.60	0.042	0.00	<4/.1	<0.79>
1,2,4-Trimethylbenzene - μg/kg	EPA 8260B	23.000	44.0 J	<20.4	12.7.1				03.6			000
1,3,5-Trimethylbenzene - μg/kg	EPA 8260B	23,000	36.0	6.32 J	8.45 J		đ		0.022	1.14		7156
4-lsopropyltoluene - μg/kg	EPA 8260B		1.9.1	8.02 J	9.86 J	,	i		7.851			0.012
4-Methyl-2-pentanone (MIBK) - μg/kg	EPA 8260B	8,100	<192	<107	<146			,	<122	-1		<156
Chloroform - µg/kg	EPA 8260B	460	<19.2	<10.7	<14.6	4	i		<12.2			156
n-Butylbenzene - μg/kg	EPA 8260B		<19.2	<10.7	7.51 J	1	1	4	<12.2			<15.6
n-Propylbenzene - μg/kg	EPA 8260B	15,000	15.1 J	<10.7	<14.6			,	<12.2	,	,	<15.6
Styrene - µg/kg	EPA 8260B	960	15.1 J	<10.7	<14.6	1	1		<12.2		4	<15.6
Other VOC analytes - µg/kg	EPA 8260B	,	QN	ND	QN	•		r	QN		1	GN
Notes:												

QC ppm mg/kg -

ppm = parts per million
mg/kg = milligrams per kilogram
e not applicable or sample not tested for this analyte
= not applicable or sample not tested for this analyte

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Table 5 / Page 1 of 1





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Senior Campus	
Complex	
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	sidence
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Frank Smith Way	
× /3ª	
5 //	
LEGEND	
B1 Shannon & Wilson on March 18, 2013	by
HO Approximate location of aboveground heating	oil tank
Approximate location of drinking water well	
Approximate location of connex storage conta	iner
Approximate location of septic system leachfie	ld
 Approximate location of burn barrel 	
Approximate location of power line	
Approximate location of residential/office struct	ure
Approximate location of wetland	
Approximate location of heavy equipment store	age area.
vehicles as noted in Appendix E photographs.	ple
-x x Approximate location of fence	e
1802 Knik-Goose Bay Roa	d
Wasilla, Alaska	
Wasilla, Alaska SITE PLAN	







APPENDIX A

COPY OF SHANNON & WILSON PROPOSAL DATED FEBRUARY 22, 2013

32-1-17563-001

February 22, 2013

Legacy, LLC 3760 Piper Street, Suite 3036 Anchorage, Alaska 99508

Attn: Ms. Nicolette Gibbs

RE: PROPOSAL TO CONDUCT A PHASE I AND LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT, 1802 KNIK-GOOSE BAY ROAD, WASILLA, ALASKA

SHANNON & WILSON

We are pleased to submit our proposal and estimated costs to conduct a Phase I and Limited Phase II Environmental Site Assessment (ESA) for three parcels located at 1802 Knik-Goose Bay Road (Property) in Wasilla, Alaska. We understand the three parcels are adjacent to each other and comprise approximately 80 acres. We understand two unoccupied cabins are located on the Property and that area around the cabins is used to store heavy machinery. The purpose of the environmental assessment and survey is to perform due diligence prior to a proposed property transaction.

SCOPE OF SERVICES

Phase I ESA

The objective of the Phase I ESA is to identify RECs, as defined by ASTM E 1527-05. The Phase I ESA will consist of a records review, site reconnaissance, interviews with owners, contacting government agencies, and reporting. The Phase I ESA will be managed and/or conducted by an environmental professional, as defined by ASTM 1527-05.

Records Review

The records review consists of two primary components – historical use information and agency databases. Aerial photographs taken by a local mapping company will be reviewed, and up to three photographs will be purchased and submitted with our report. These photos typically include one of the subject property or surrounding properties prior to surface disturbance, one interim photo showing significant land use patterns, and one showing the site as it appears today. The historical use research will also include a database search from the Alaska Department of Natural Resources (ADNR) Recorders Office website and a visit to the ADNR Recorders Office in Palmer in an effort to determine current and past ownership of the Property. We will also

5430 FAIRBANKS STREET-SUITE 3 ANCHORAGE, ALASKA 99518 907-561-2120 • FAX 907-561-4483

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ALASKA CALIFORNIA COLORADO FLORIDA MISSOURI OREGON WASHINGTON

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review title searches completed for the Property, if made available by you, and incorporate this information into our reports. Shannon & Wilson will also attempt to contact local utility companies for additional information about the site.

We will conduct a search of state and federal databases, using the radii specified in ASTM 1527-05. Primary databases include the Alaska Department of Environmental Conservation (ADEC) lists of registered underground storage tanks (USTs), leaking USTs (LUSTs), and contaminated sites; and federal databases pertaining to known Resource, Conservation, and Recovery Act (RCRA) and/or Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) sites. Additional information may also be obtained from site use permits, utility companies, and local fire department. The results of the database search will be discussed and tabulated in our summary report.

Site Reconnaissance

Following the records search, we will visit the site and surrounding properties and conduct a visual assessment for indicators of potential environmental issues (i.e., underground or aboveground storage tanks, waste oil tanks, waste disposal drums, hazardous chemical storage, etc.). The site will be walked to the extent practicable, within the developed areas and along established paths, photographed, and evaluated for potential concerns. The site visit will be conducted by an environmental scientist under the supervision of an environmental professional as defined by ASTM 1527-05. An interior evaluation of the on-site structures will be conducted for potential environmental concerns. The interior evaluation of the structure will be limited to areas with floor drains, the utility/mechanical room, and common areas. We assume that a representative of Providence will be present during the site visit and will arrange site access with the current Property owner before the site visit. We will conduct a visual assessment of adjacent properties from vantage points outside the property boundaries. A site plan will be developed showing the approximate location of the observed potential environmental concerns. Observed chemicals or hazardous materials stored on the properties will be noted in the report.

Interviews and Additional Records Review

We will make reasonable efforts to interview the current owner/tenants or former owners/tenants of the Property, subject to your authorization. Past uses and storage or disposal of petroleum hydrocarbon/hazardous substances on the Property will be discussed. A government agency will be contacted regarding sites that may comprise or contain RECs. If transformers are observed at this site, we will contact the local electrical utility for information regarding the presence or absence of polychlorinated biphenyls (PCBs) in the utility-owned equipment.

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We will review site physical data pertaining to hydrogeologic/flood plain information, wetlands, endangered or protected flora/fauna, historic structures, surface waters, nearby well locations, and subsurface geological and soil characterizations. The sources used will be referenced in the report along with the names of persons interviewed.

Non-Scope Considerations

We will comment on additional relevant items and factors that could pose a Business Environmental Risk to these properties as discussed in ASTM 1527-05. However, an assessment of these non-scope considerations will not be performed. Additional relevant items and factors outlined in ASTM 1527-05 as non-scope considerations include: indoor air quality, asbestos, radon, lead in drinking water, and high-voltage power lines.

Limited Phase II ESA

The objective of the limited Phase II ESA is to evaluate the site's soil for contamination associated with the current and former use of the Property, off-site fill placement on the Property, and an adjacent LUST site south of the Property. For cost estimating purposes, we assume the limited Phase II ESA activities will be conducted during the same trip as the Phase I ESA site visit. A work plan will not be prepared for the Phase II ESA.

Field Activities

Prior to initiating field activities, a buried utilities locate request will be submitted to the local utility companies and the on-site utilities will be identified. We estimate a two-day field effort with up to 8 soil borings drilled on the Property. The boring locations will be based on the findings from the Phase I ESA research and aerial photograph review but will focus on areas used to store heavy equipment, where fill had previously been placed on the Property, and adjacent to the LUST site. A site sketch of the proposed boring locations will be prepared and discussed with you prior to drilling. The borings in the area of the heavy equipment storage and former fill area will extend to about 10 feet below the ground surface (bgs), while the borings adjacent to the LUST site will extend to 20 feet bgs. Discovery Drilling of Anchorage, Alaska will be subcontracted to provide a drill rig and operator to advance the borings. Soil screening samples will be collected at 2.5-foot intervals to the base of each boring. The samples will be screened for volatile organic compounds using a photoionization detector (PID) and field headspace screening techniques.

One analytical soil sample will be submitted from each boring. The analytical soil samples will be submitted to SGS North America Inc. (SGS) of Anchorage, Alaska for laboratory testing.

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Following collection of the soil samples, the drill cuttings will be used to backfill the boreholes. Groundwater sample analysis is not included in this scope of the Limited Phase II ESA but may be added at your request or if indications of contaminated soil are observed or groundwater is encountered.

Laboratory Analyses

Analytical soil samples will be submitted to SGS on a standard 7 to 10-day turnaround. The soil samples will be analyzed for gasoline range organics (GRO) by Alaska Method (AK) 101, diesel range organics (DRO) by AK 102, residual range organics (RRO) by AK 103, and aromatic hydrocarbons by EPA Method 8021B. Based on field screening results, up to four samples will also be analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. In addition, up to four soil samples from borings advanced near the adjacent LUST site and heavy equipment storage area will be tested for Resource Conservation and Recovery Act (RCRA) metals by EPA 6020. Based on the limited knowledge of the Property, polychlorinated biphenyl (PCB) analyses are not included in the scope of this Limited Phase II ESA, but can be added at your direction if a more comprehensive assessment is desired. Note, that Shannon & Wilson may recommend that the analyses be modified based on the Phase I ESA findings.

For quality control purposes, a trip blank will accompany the project samples to monitor whether cross contamination has occurred.

Summary Report

The findings of the Phase I and Limited Phase II ESA will be provided as a single report document. The Phase I ESA portion of the report will summarize the results of our research, interviews, and site reconnaissance; and will identify RECs, historical RECs, and other environmental conditions not classified as RECs. The report will also include a brief environmental setting, including predominant land use in the vicinity, distance to the nearest water bodies, wetlands and critical terrestrial environments (parks, wildlife refuges, sanctuaries, etc.).

The Limited Phase II ESA portion of the report will include: a scaled site plan showing boring locations, tabulated field screening and analytical sample results, and conclusions regarding the site's environmental condition and regulatory status. If analyte concentrations are greater than ADEC cleanup levels, an ADEC data review checklist will also be prepared and included in the report.

1802 Knik-Goose Bay Road Wasilla, Alaska February 22, 2013 Page 5 of 6

Color copies of aerial photographs and site photographs will be included in the report. The report will be signed by the environmental professional managing the assessment. Three original reports and one electronic report, in adobe acrobat format, will be provided. The report and opinions presented will be based solely upon the services described herein and will not be based on tasks or procedures beyond the scope of the described services.

EXCLUSIONS/LIMITATIONS

This Phase I and Limited Phase II ESA work does not include provisions to sample radon gas, groundwater, or other media not specifically identified in this proposal. The intent of the limited Phase II ESA is to identify gross or ubiquitous contamination, and potential general vertical delineation of contamination in the top 10 to 20 feet bgs. These data will be representative of the subsurface conditions only at the specific areas targeted for study, and will not be sufficient to characterize the entire site or potential sources areas that are not specifically targeted. If impacted soil and/or groundwater is encountered, additional investigation may be required to determine the extent of contamination and/or to develop an estimate of cleanup costs. The soil and purgewater generated during the Phase II ESA will be used as backfill for the boring.

SCHEDULE

We are available to start work on this project immediately following authorization to proceed. Drilling will occur within one week following authorization to proceed, contingent to the availability of the drilling contractor. Our final report can be provided to you within 4 weeks of receipt of analytical results. However, significant findings will be provided to you informally as they are determined.

ESTIMATED COSTS AND CONDITIONS FOR SERVICES

We are prepared to conduct the Phase I and Limited Phase II ESA on a lump sum basis in accordance with the attached summary cost estimate. These costs include work through submittal of our summary report. The terms and conditions for our services are in accordance with attached Standard General Terms and Conditions. We are also including the documents "Important Information About Your Environmental Site Assessment Proposal" and "Important Information About Your Geotechnical/Environmental Proposal."

If you approve of the scope of work and our associated costs, please sign in the space provided and return a copy of this letter, which will serve as our agreement. If you have questions or comments, or wish to revise the scope of our services, please call Matt Hemry, P.E. or the undersigned at (907) 561-2120.

1802 Knik-Goose Bay Road Wasilla, Alaska February 22, 2013 Page 6 of 6

We look forward to working with you on this project and appreciate the opportunity to be of service.

Sincerely,

SHANNON & WILSON, INC.

State

Dighali yagned by Shayla Marshail DN: cn=Shayla Marshali, o=Shannon & Wilson, inc, ou, emali=shmeshanwil.com, c=US Date; 2013.02.22 16:22:42-09'00'

Shayla Marshall Senior Scientist

Enc: Summary Cost Estimate

Standard General Terms and Conditions Important Information About Your Environmental Site Assessment/Evaluation Proposal Important Information About Your Geotechnical/Environmental Proposal

ACCEPTANCE

I accept the above conditions and authorize the Phase 1 and Limited Phase II ESA for the property at 1802 Knik-Goose Bay Road, Wasilla, Alaska to proceed.

By: Authorized Signature Printed Name: U ₫ ĥ Title:

Date

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APPENDIX B

PHASE I ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRES

32-1-17563-001

IMPORTANT!! CLIENT/USER RESPONSIBILITIES FOR PHASE I ENVIRONMENTAL SITE ASSESSMENTS

ASTM E 1527-05 and the All Appropriate Inquiry Rule at 40 CFR Part 312 impose upon the User of the Phase I Environmental Site Assessment the responsibility for performing certain tasks and providing certain information to the environmental professional to help identify the possibility of *recognized environmental conditions* in connection with the property. The "User" is any person seeking to use the Phase I Environmental Site Assessment to be potentially eligible for the Landowner Liability Protections under the federal Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), and may include a potential purchaser, tenant, lender or property manager of the property.

Attached for your action is a "Phase I Assessment User Questionnaire" which is designed to provide you with a concise list of the tasks and information that you, and any other User, must perform and/or provide to us in connection with this Phase I Environmental Site Assessment. We ask that each User (you and each party who intends to rely on this Phase I Environmental Site Assessment) complete the Questionnaire and return it to us as soon as possible so that the information may be timely considered by us as we assess the property. If you desire for us to arrange for the user-required review of land title or judicial records for environmental liens and activity/use limitations associated with the property (Item 1 on the Questionnaire), that request <u>must</u> be set forth in your Request for Phase I Assessment.

It is important to understand that the failure perform the user-required tasks and provide the information in the Questionnaire will be identified as a "data gap" in our report and could jeopardize our ability to form an opinion about whether recognized environmental conditions exist at the property. It could also jeopardize the User's ability to meet the threshold "all appropriate inquiry" requirement for establishing the innocent purchaser, contiguous property owner or bona fide prospective purchaser defenses to liability (collectively, Landowner Liability Protections) under CERCLA.

Phase I Assessment User Questionnaire

The information in this User Questionnaire is prepared and provided by the user to the environmental professional pursuant to 40 CFR 312.22. Pursuant to ASTM E 1527-05, the "user" is the party seeking to complete the environmental site assessment of the property and also any person seeking to establish one or more of the Landowner Liability Protections (LLPs) under CERCLA. A user may include, without limitation, a potential purchaser or potential tenant of the property, a lender or a property manager.

The information on this Questionnaire must be performed and/or provided by the User of the Phase 1 Assessment in order to potentially qualify for one of the *Landowner Liability Protections* under the Comprehensive Environmental Response Compensation and Liability Act of 1980, as amended.

PERSON COMPLETING QUESTIONNAIRE: Micaela Jones

SUBJECT PROPERTY (address):

USER TYPE (purchaser, tenant, lender): <u>huvchasev</u>

* Note: Each person or entity that will rely on this Phase I ESA is considered a "User" and must also provide the information requested below. Make additional copies of this form for any additional Users.

**(1). Environmental cleanup liens, institutional controls and engineering controls that are filed or recorded against the site (40 CFR 312.25; ASTM Section 6.2).

Are there any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law? Yes / No If yes, please describe.

UNKNOWN

Are there any institutional controls (such as land use restrictions) or engineering controls (such as cap or engineered barriers) that are in place at the site and/or have been filed or recorded in land records or a registry under federal, tribal, state or local law? Yes / No If yes, please describe.

unknown

** Important Note: A search for environmental cleanup liens filed or recorded against the property is required, but is not the responsibility of the environmental professional. If you do not include in your Request for Phase I Assessment that Shannon & Wilson arrange for this activity, then you should engage a title company or other title professional for a comprehensive review of land title and judicial records for evidence of cleanup liens as well as any institutional or engineering controls recorded against the property. Please provide us with copies of surveys, chain of title and any other relevant land records obtained by your review. The ASTM Phase I Standard indicates that only the User commissioning the Phase I ESA must perform this task.

Specialized knowledge or experience of the person seeking to qualify for the Landowner Liability Protections (LLPs) (40 CFR 312.28; ASTM Section 6.3).

Do you have any specialized knowledge or experience in connection with the property or nearby properties relevant to environmental matters? (For example, are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?)

Yes / No

If you do have such knowledge or experience, please describe.

Relationship of the purchase price to the fair market value of the property if it were not contaminated (40 CFR 312.29; ASTM Section 6.5).

If the transaction at issue involves the purchase of the property, does the proposed purchase price for this property reasonably reflect the fair market value of the property? Yes / No //NA)

If you conclude that the purchase price is less than the fair market value, have you considered whether the lower purchase price is because contamination is known or believed to be present at the property? Yes / No / NA \rangle

After such consideration, do you have reason to believe that the lower price is because of real or perceived contamination at the property?Yes / No /NA

(4) Commonly known or reasonably ascertainable information about the property (40 CFR 312.30; ASTM Section 6.6).

Are you aware of commonly known or reasonably ascertainable information about the property or community that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

Do you have information about the past uses of the property or adjoining property? Yes / No If yes, please describe.

Do you have information about specific chemicals that are present or once were present at the property? Yes / No If yes, please describe.

(3)

(2)

Do you know of any spills or other releases of petroleum products, oil, chemicals, solvents or other hazardous materials at the property or adjoining property? Yes No lf yes, please describe and/or attach copies of relevant documents/reports.

Do you know of any environmental cleanups or investigations that have taken place at the property or adjoining property? Yes / No / If yes, please describe and/or attach copies of relevant documents/reports.

Do you have any environmental reports, permits, notices of violation or other documents concerning environmental matters at the property? Yes / No If yes, please attach copies.

The degree of obviousness of the presence or likely presence of contamination at the property, and the ability to detect the contamination by appropriate investigation (40 CFR 312.31;).

Based on your knowledge and experience related to the property or the community, are you aware of any obvious indicators pointing to the presence or likely presence of contamination at the property? Yes / No / If yes, please describe.

(6) The purpose for the Phase I Environmental Site Assessment (ASTM Section 6.7).

ls the purpose for this Phase I to potentially qualify for the Landowner Liability Protections under CERCLA? Yes / No

If not, what is the purpose for this Phase I?

(7)

(5)

Although you are not required to obtain any of the following documents, please provide us with copies of any of the following documents that you may already have in your possession or could easily obtain for our use.

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ALTA Survey showing the boundary of the Property Previous Environmental Site Assessment Reports (Phase I and/or Phase II reports) Environmental Compliance Audit Reports Environmental Permits (air, wastewater, stormwater, etc.) Underground and Aboveground Storage Tank Registrations Tank Removal or Investigation Reports Governmental Notices relating to alleged violation of environmental laws

SHANNON & WILSON PHASE I ENVIRONMENTAL SITE ASSESSMENT QUESTIONNAIRE FOR <u>SUBJECT</u> PROPERTY

The purpose of this Environmental Assessment is to acquire sufficient information to develop a professional opinion as to the presence of petroleum hydrocarbon/hazardous substances on or near the subject property that may affect this site. This questionnaire should be completed to the fullest extent possible.

Date of Visit: NMUM 4, 2013 Interviewer: 1011111	A SHAMMA DANS
Project Name/Project Number: 32-1-11543-001	
Legal Description/Site Address: 1802 KAB RA	
City WANNA State KK	Zip
Property Owner(s): RMMM HMMMM > HANMMM	EXAMINATION
Representative(s) Interviewed: <u>RANNAA</u> HANNAM	Length of Time at Site: <u>1993</u>
Phone: 232-296 (RAMAN COLL)	

Previous Ownership: Please provide the following information regarding the history of past ownership of the property.

<u> </u>	Owner	•	·	Dates From - To	<u>) </u>	<u>T</u>	ypo of Busi	ness	
1.	Harman	HONNIE -	• 	1993- 199	trus	· ·		· · ·	
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Please answer the following questions to the best of your knowledge. Circle the best answer and provide additional information if known.

- 1) Have you ever had an environmental audit or assessment completed on any of your businesses or properties?
- Yes (no) don't know
 2) Did any other structures exist on this property before the present structures were built?
 Yes no don't know
 3) Are there any as-built plans of the subject property?
- Yes no don't know
- 4) Are any of the existing structures on the property built prior to 1978?
- Yesnodon't know5)Is there asbestos in buildings located on the property?
- Yes no don't know
- 6) Is there any evidence that the properties have seen previous commercial or industrial activities?
- Yes

Yea

Yes

- 7) Does this property have its own water well?
- 8) Does this property have a septic system and leachfield?
 - no

no

don't know

don't know

don't know

9) Does this property have natural gas? NUN VINNUN NUMBER ON MARKED OF THE PROPERTY AND A DESCRIPTION OF TH

don't know

10) Prior to having natural gas, did this property use an above ground storage tank or an underground storage tank to store heating fuel? If not, what heat source was used before natural gas was available?

ANNA AKOANNO don't know Yes anulary an - unugango vantana pa

Environmental Job Forms\Phase | ESA Forms\Site Visit Forms\Subject Property Interview.doc

L.J

11) Does the site contain above ground or buried fuel or chemical storage tanks? If yes, list which authorities the tanks were registered with, the tank capacities, the age of the tanks, the tank contents, and whether any problems such as vapors or soil contamination have been encountered.

) RAMAN NOT 9 KNIVINI E Yes don't know Registered with: EPA ADEC Other Capacity of Tanks gallons; Tank contains Age of tank is _____ years; Any problems? 12) Have there been any excavations on the property? tor potential placehouser - showed hat have Yes don't know If yes, explain: 13) Has off-site fill ever been deposited on the site? Yes don't know If yes, explain: -Have any areas of the site been treated with petroleum products or other chemicals for dust control? 14) Yes don't know If yes, areas treated: 15) Does the site contain any 55 gallon drums or other containers? Yes no don't know Contents of drums: \ WWW WWWEL. 2 WWWWW , \ WWWWW MARCA FOX STONING INARA ANI-INAMA Is there any cause to believe that any operation or equipment only around t 16)e facility has been the cause of a spill or release of hazardous waste? Is there any evidence of a hazardous substance release such as stained ground areas, drums, transformers, trash, general disrepair, chemicals, areas where plants refuse to grow, or other indications of hazardous substance contamination? Yes no don't know IT yes, nature? WILLAUNTON ILMKS I AKIDS FYWM LANNYWWYMY NSVS AVID YNWYS I DANGS AS MAERED

Page 3 of 5

		1			
17)	Has the property hazardous substa	been used at any time to y nces or for illegal dumpin	our knowledge for t g?	he treatment, storage or disposal of	
	Yes	no		don't know	
18)	Have any unusua been observed on	l conditions such as conta surrounding properties?	inerized wastes, surf	ace staining, filling activities, etc., ever / //	
	Yes	no	•	don't know	
19)	Do railroad facili	ties cross or border the sit	e?		
•	Yes	nd		don't know	·
20)	Have there been a	any industrial accidents in	the vicinity? Pt. MMNK. YVMI	don't know	
	Yes	no	0,00	don t know	
21)	Are any creeks or	other drainage ways loca	ted on or around the	site?	
, "·	Yes	high		don't know	
22)	Do you use or ha located on the pro- light fixtures, and	ve you used Polychlorinat operties in question? (PC l in used oils from electric	ed Biphenyls (PCBs) Bs are commonly for al components).) in any activities, or are there any PCB and in electrical transformers, fluoresce	s nt
	Yes	ÎÎ	•	don't know	
23)	Are you aware of proposed uses) w	`any activities on this prop hich indicate potential env	perty or any surround vironmental risk?	ling properties (including the present or	
	Yes	nd		don't know	
· 24)	Within a quarter 1	mile radius of this propert	y, do any of the follo	owing exist?	•
a)	A current or form	er landfill?			
b) 🥍	Yes NWI W NWPW W Any property sus	NK-> CONNEX no NN KANARIN NNR RA pected of hazardous subst	MMM MNNEN ance contamination?	don't know	
·	Yes	no		don't know	
c)	Any waste discha	rges to surface water?			
·.	Yes	no		don't know	
•	· · ·	\bigcirc			
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Environmental Job Forms\Phase I ESA Forms\Site Visit Forms\Subject Property Interview.doc

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25)	Indicate if any of the following uses	s, stores, transports,	generates or di	isposes of any	hazardous
	substance.		•	i.	I.

a)	Property owner's busines	s?		•
	Yes	no	don't know	•
b)	All related businesses?			•
. 7	Yes	no	don't know	• • • •
c)	All tenant's businesses?)	· · · · ·	
	Yes NA	no	don't know	
d)	Neighboring properties?	· · · · ·		• • •
	Yes	no	don't know	•
26)	Have you or any previous for the property or have a	owner ever been issued a permit for treatment, stor	hazardous waste generator's iden age or disposal of hazardous mate	tification number erials?
. •	Yes	no	don't know	
27)	Please state all licenses ar have for treatment, storag including any pending app	nd permits which you, you e or disposal of hazardous plications?	r business, or any tenant possesses materials or relating to environn	es or is required to nental law matters,
	Licenses:			
28)	Are you or any of your pro of non-compliance, admin or local government agence	operty currently, ever have istrative, legal enforcement by relating to environment	e been, or are anticipated to be, th nt, or any other action or actions al laws, permits, orders, or other	e subject of a letter by any federal, state, requirements?
• •	Yes	no	don't know	•
	If yes, please describe: \underline{N}			· · · · · · · · · · · · · · · · · · ·
			• • •	
•				• •

8072582426

T-202 P.02/02 Job-880 BOOK 1009 PAGE 809

QUITCLAIM DEED

THE GRANTOR, RANDY HARMAN, an unmanied man, of P.O. Box 870231, Wasilla, Alaska 99687, for and in consideration of the sum of TEN DOLLARS (\$10.00) and other good and valuable consideration, the receipt of which is hereby acknowledged, hereby CONVEYS and QUITCLAIMS unto HARMAN EXCAVATING, INC., an Alaska corporation, GRANTEE, of P.O. Box 870231, Wasilla, Alaska 99687, all of his, right, title, interest, estate and claim in and to that certain seal property situated in the Anahorage Recording District, State of Alaska, more particularly described as follows: PAIMETC

> The East one-half of the Northeast one-quarter (E1/2 NE1/4) of Section 16, Township 17 North, Range 1 West, Seward Meridian, located in the Palmar Recording District, Third Judicial District, State of Alaska. EXCEPT THAT portion granted to the State of Alaska, by instrument recorded April 13, 1965, in Book 56, at Page 222. ALSO EXCEPTING that portion lying Southeasterly of Knik-Goosebay Road, as described in instrument recorded in Book 56, at Page 222.

DATED this 238 day of Applil 1999.

) \$9.

GRANTOR:

RANDY HARMAN

STATE OF ALASKA

THIRD JUDICIAL DISTRICT

THIS IS TO CERTIFY that on this <u>23</u> day of <u>April</u>, 1999, before me appeared RANDY HARMAN, to me known and known to me to be the individual named in and who executed the foregoing instrument, and acknowledged voluntarily signing and sealing the same.

NOTARY PUBLIC NANCY M. HENRIONNET STATE OF ALASKA COMMISSION EXPIRES <u>2 12810</u>2

Y Jancy Nenrion Notiry Public in and for Alaska

My Commission Expires:

0107-24-423 And

HOGE AND LENGEH 441 VEST FIFTH AVENLE, SLITE SO, ANCHORAGE, ALASKA TEL: (907) 276-1728 / FAX: (907) 256-2428

APR-23-88 14:17 From:HOGE / LEKISCH

9072692426

7-230 P.03/03 Job-546

BOOK 1009 PAGE 810

To be recorded in the Palmer Recording District.

After repordation return to:

Harman Excavaling, Inc. P.O. Box 870231 Wasilla, AK 99687

007648 PALMER RECORDING DISTRICT

18

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1999 AP 26 AH 9: 50 C C REQUESTED BY

MCKINLEY TITLE & TRUST 1700 E. PARKS HWY SUITE 200 WASILLA, ALASKA - 99687-

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HOGE AND LEKTICH ANI WEST FIFTH AVENUE, SUITE SCA, ANCHORACE, MARKA 2001 TEL: (307) 276-1725 (FAX: (307) 258-2426

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Judici	al District of the Sta	te of Alaska.	
Rom	Id L. Hannan	GRANTOR ((f applicable)
550 W	. Fallen Leaf Cir. Wasi	Ha,AK Address ((applicable)
			••• • •
STATE	of Alaska	.)	
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I CERTI	iss that <u>Randy H</u>	<u>Arman</u>	end
and sid	an the above OUITCLAIN	BED document free	ly and voluntarily for i
stated	purposes and reasons a	et forth therain	on the 28^{th} day
Dec	ember , 19	<u>19</u> .	
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2004-191 PUMER

AFFIDAVIT

(I)(We) hereby certify that (I)(we) hold the herein specified property interest in the property shown and described hereon and that (I)(we) hereby adopt this plan of subdivision by (my)(our) free consent(;)(.)(dedicate)(all rights-of-way) (and public areas) (to the Matanuska-Susitna-Borough) and (grant all easements to the use showd). (delete

A portion of E2, NE4, Sec. 16, TI7N, RIW, S.M. Current Legal Description or Book & Page of Document

NORTHRIM_BANK:

Address

- -

Mattus HALOOAN (Sighature) KATHLEEN J. MARTIN, AVP, CONST. LOANS (Printed Name) 850 USA Circle, Wasilla, AK 99654

Center Point Sub ., Phase II Proposed Subdivision Name or Public Use Easement

Lienholder Interest in Property

NOTARY CERTIFICATION

State of Alaska)ss Third Judicial District

SUBSCRIBED and SWORN to (or affirmed) before me this

NOTAR PUBLIC CIT OF ALAS

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3rd day of

September

(month)

η.,

KATHLEEN J. MARTIN 2 - 004by (name of signar(s)) (vear)

(signature and seal of notary) Rbo

My commission expires:



2011-005185-0

Recording Dist: 311 - Palmer 3/18/2011 3:33 PM Pages: 1 of 2

-{Space Above this Line For Recording Data|-QUIT CLAIM DEED (Palmer Recording District)

A

S K A

The GRANTOR, City of Wasilla whose mailing address is 290 E Herning Ave, Wasilla, Alaska 99687-0231, in consideration of 10 dollars (\$10.00) and other good and valuable consideration in hand paid on the date first written herein below and the receipt of which is hereby acknowledged, does by this Instrument convey and quit claim to GRANTEE, Harman Excavating, INC whose mailing address is P.O. Box 870231, Wasilla, Alaska 99654, all of the right, title and interest which the GRANTOR has in the following parcel of real property:

All that property within the W1/2 NE1/4, Section 16, Township 17 North, Range 01 West, S.M. described as Tract 1 and as shown on the attached Record of Survey which is incorporated into this document by reference.

16 H DATED this 18th day of March 2011 at Wasilla, Alaska

) SS.

MAYOK

STATE OF ALASKA

THIRD JUDICIAL DISTRICT

I certify that <u>Verne Rupright</u> did appear before me and sign the above QUIT CLAIM DEED freely and voluntarily for the stated purposes and reasons set forth therein on this <u>16</u>th day of Mareh 2011.



Notary Public In and For the State of Alaska My Commission Expires 5 - 18 - 13.

City of Wasilla 290 E Herning Ave Wasilla, Alaska 99654 Harman Excavating P.O. Box 870231 Wasilla, Alaska 99687-0231

i. J

-[Space Below this Line For Recording Data]--






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PALMER 2011-38

AFFIDAVIT

I hereby certify that we hold the herein specified property interest in the property shown and described hereon and that we hereby adopt this plan of subdivision by our free consent, dedicate all rights of way and public areas to the Matanuska Susitna Borough and grant all easements to the use shown.

RECEPTION # 2009-023527-0 **CENTER POINT SUBDIVISION PHASE 4** Current Legal Description or Proposed Subdivision Name or Book & Page of Document

(Signature)

Public Use Easement-

BENEFICIARY

Interest in Property

Wells Fargo Bank, N.A. As custodian of the Ronald E. Greisen IRA Rollover

(Printed Name) June Han Cannon

west lights - Anchorace Address NOTARY CERTIFICATION

State of Alaska

Third Judicial District 3

NOTARY ACKNOWLEDGEMENT:

Subscribed and sworn before me this 12day of March 20/1.

ami Notary Public in and for the State of Alaska

My commission expires: 12/114

PALMER- 2011-38

AFFIDAVIT

I hereby certify that we hold the herein specified property interest in the property shown and described hereon and that We hereby adopt this plan of subdivision by our free consent, dedicate all rights of way and public areas to the Matanuska-Susitna Borough and grant all easements to the use shown.

RECEPTION #2009-023527-0

Current Legal Description or Book & Page of Document

(Mgnature)

Wells Fargo Bank, N.A. Rick Flake, Vice President (Printed Name)

301 W Northeral Johns Bly Address Auchorage Sie 99503

NOTARY CERTIFICATION State of Alaska))ss Third Judicial District) NOTARY PUBLIC REBECCA A. CUPP STATE OF ALASKA

MY COMMISSION EXPIRES JULY 2, 2014

CENTER POINT SUBDIVISION PHASE 4

Public Use Easement

BENEFICIARY Interest in Property

Proposed Subdivision Name or

 \square

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NOTARY ACKNOWLEDGEMENT:

Subscribed and sworn before me this $\underline{14^{th}}_{day}$ of \underline{March}_{day} , 2011.

Notary Public in and for the State of Alaska My commission expires: JULY 2, 2014

PALMER 2011-38

AFFIDAVIT

I hereby certify that we hold the herein specified property interest in the property shown and described hereon and that We hereby adopt this plan of subdivision by our free consent, dedicate all rights of way and public areas to the Matanuska Susitna-Borough and grant all casements to the use shown.

RECEPTION # 2009-023527-0 Current Legal Description or-Book & Page of Document

(Signature)

Equivest Mortgage Income Trust, Inc. Kenneth Jay Gain, President (Printed Name) 5313 Arutic Blud, Sente Zol Hachoryd, AK Address

NOTARY CERTIFICATION State of Alaska)ss Third Judicial District)

NOTARY ACKNOWLEDGEMENT:

Subscribed and sworn before me this $\frac{14^{+5}}{14^{-5}}$ day of <u>MOR ch</u> 20/2

Notary Public in and for the State of Alaska My commission expires: dent 292012

NOTARY --- • --- PUBLIC JOANNE F. GAIN STATE OF ALASKA

CENTER POINT SUBDIVISION PHASE 4

Public Use Easement

BENEFICIARY

Interest in Property

Proposed Subdivision Name or

SHANNON & WILSON, INC.

APPENDIX D

WELL LOG

32-1-17563-001

Certified Drilling Log

SULLIVAN WATER WELLS

P.O. BOX 870272, CHUGIAK, ALASKA 98697 . TELEPHONE 888-2760

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MISCL INFORMATION:

DRILLER'S NAME Zel

SHANNON & WILSON, INC.

APPENDIX E

SITE PHOTOGRAPHS

32-1-17563-001



Photo 1: Two residential/office structures are located on the Property. The structures are serviced by heating oil stored in storage tanks and leach fields; looking northeast. (March 4, 2013)



Photo 2: Heating oil tank that services the northern residential/office structure; looking northeast. (March 4, 2013)

> 1802 Knik-Goose Bay Road Wasilla, Alaska

> > PHOTOS 1 AND 2

May 2013

32-1-17563-001

SHANNON & WILSON, INC. Geotechnical & Environmental Consultants E-1



Photo 4: A 55-gallon drum that is used as a burn barrel; looking northeast. (March 4, 2013)

1802	Knik-Goose Bay Road Wasilla, Alaska	
PI	HOTOS 3 AND 4	
May 2013	32-1-17563-	001
SHAN Geotech	INON & WILSON, INC.	2

Photo 3: The Property's drinking water well; looking north. (March 4, 2013)



Photo 5: Four connex storage containers are located north of the residential/office structures; looking northeast. (March 4, 2013)



Photo 6: Numerous empty 5-gallon buckets are stored in the connex storage container west of the residential/office structure. (March 4, 2013)

	1802 Knik-Goose Bay Road Wasilla, Alaska	
	PHOTOS 5 AND 6	
May 2013	32-1-175	563-001
	SHANNON & WILSON, INC. Geotechnical & Environmental Consultants	E-3



Photo 7: Four 55-gallon drums were observed in the connex west of the residential/office structures. (March 4, 2013)



Photo 8: A surface stain observed under heavy equipment. (March 4, 2013)

	1802 Knik-Goose Bay Road Wasilla, Alaska	
	PHOTOS 7 AND 8	
May 2013	32-1-175	63-001
	SHANNON & WILSON, INC. Geotechnical & Environmental Consultants	E-4



Photo 9: A surface stain observed under heavy equipment. (March 4, 2013)



Photo 10: Unused and/or discarded materials stored on the northeast portion of the Property; looking south. (March 4, 2013)

- Instantes		
	1802 Knik-Goose Bay Road Wasilla, Alaska	
	PHOTOS 9 AND 10	
May 2013	32-1-175	563-001
	SHANNON & WILSON, INC. Geotechnical & Environmental Consultants	E-5



Photo 11: The majority of the Property is undeveloped with the exception of unpaved roads; looking west. (March 4, 2013)

<image/>	Photo 12: Boring B3 was advanced near the Property's leach field; looking northeast. (March 18, 2013)
	1802 Knik-Goose Bay Road Wasilla, Alaska
	PHOTOS 11 AND 12
	May 2013 32-1-17563-001
	SHANNON & WILSON, INC. E-6



Photo 13: Boring B5 was advanced in the central portion of the Property near the utility easement; looking east. (March 18, 2013)



Photo 14: Boring B7 was advanced near the southern Property boundary; looking south. (March 18, 2013)



SHANNON & WILSON, INC.

APPENDIX F

BORING LOGS

32-1-17563-001















NTAN-18319 2014 MIT NO MINI CROZINY BACTURE NEW DALAMAN	n na shi na shi na na shi n	alarak suditi ni ana ang ang ang ang ang ang ang ang ang				an finat i for an	-	8981 2444 oğu baldırdı birm
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To: S	hannon & Wilson, Ind 430 Eairbanks St. Su	c. lite 3						
A	nchorage, AK 99518							
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Report Number:	1130981			- •				
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Dear Jennifer Sim	imons,	·.				۰.		
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SGS North America Inc.

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200 West Potter Drive, Anchorage, AK 99518 [t 907.562,2343 f 907.561.5301 www.us.sgs.com

SGS North America Inc.

Case Narrative

Customer: SHANNOT

Project: 1130981

Shannon & Wilson, Inc. 32-1-17563-001 1802 Knik Goose

Refer to the sample receipt form for information on sample condition.

17563-B1S1 1130981001 PS

8260B - Sample surrogate recovery for 1,2-dichloroethane D4 does not meet QC criteria (biased high). All analytes associated with this surrogate were not detected above the LOQ.

1130981003 PS 17563-B3S4

8260B - Sample surrogate recovery for toluene-d8 does not meet QC criteria (blased high). All analytes associated with this surrogate were not detected above the LOQ.

1142133 MS 1130981001MS

6020 - Metals - MS recovery for chromium was outside of acceptance criteria. Post digestion spike was successful.

1142164MS 1142165 MS

8260B - MS recoveries for several analytes do not meet QC criteria. Refer to LCS for accuracy.

1142164MSD 1142166 MSD

8260B - MSD recoveries for sec-butylbenzene and n-butylbenzene do not meet QC criteria. Refer to LCS for accuracy.

* QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to the associated field samples.

LJ

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. If you have any questions regarding this report, or if we can be of any other assistance, please contact your SGS Project Manager at 907-562-2343. All work is provided under SGS general terms and conditions (<htp://www.sgs.com/terms_and_conditions.htm>), unless other written agreements have been accepted by both parties.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & UST-005 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020A, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035B, 6020, 7470A, 7471B, 8021B, 8082A, 8260B, 8270D, 8270D-SIM, 9040B, 9045C, 9056A, 9060A, AK101 and AK102/103). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

SG

` T		
	Greater Than	
. v	The quantitation is an estimation.	- 1
1	The analyte was positively identified, but the quantitation is a low estimation.	•
_ .CS(D)	Laboratory Control Spike (Duplicate)	
OD	Limit of Detection (i.e., 2xDL)	
.OQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)	
Т	Less Than	
л.	A matrix effect was present.	
ИB	Method Blank	
/IS(D)	Matrix Spike (Duplicate)	
VD`	Indicates the analyte is not detected.	
ב	QC parameter out of acceptance range.	
२	Rejected	
٦L	Reporting Limit	
RPD	Relative Percent Difference	
J	Indicates the analyte was analyzed for but not detected.	
	- CS(D) OD OQ T 1 1 1 1 1 5 (D) 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 2 3 2 3	 The quantitation vertication The quantitation is an estimation. The analyte was positively identified, but the quantitation is a low estimation. CS(D) Laboratory Control Spike (Duplicate). OD Limit of Detection (i.e., 2xDL) OQ Limit of Quantitation (i.e., reporting or practical quantitation limit) T Less Than A matrix effect was present. 1B Method Blank IS(D) Matrix Spike (Duplicate) ID Indicates the analyte is not detected. QC parameter out of acceptance range. Rejected 2L Reporting Limit 2PD Relative Percent Difference Indicates the analyte was analyzed for but not detected.

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<u>Client Sample ID</u>	Lab Sample ID	Collected	Received	Matrix
17563-B1S1	1130981001	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B2S1	1130981002	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B3S4	1130981003	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B4S3	1130981004	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B4S5	1130981005	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B5S1	1130981006	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B6S4	1130981007	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-B6S6	1130981008	03/18/2013	03/19/2013	Soll/Solid (dry weight)
17563-B7S4	1130981009	03/18/2013	03/19/2013	Soil/Solid (dry weight)
17563-STB	1130981010	03/18/2013	03/19/2013	Soil/Solid (dry weight)

AK101 SW8021B AK102 AK103 AK101 SM21 2540G SW6020 SW8260B

AK101/8021 Combo. (S) AK101/8021 Combo. (S) Diesel/Residual Range Organics Diesel/Residual Range Organics Gasoline Range Organics (S) Percent Solids SM2540G RCRA Metals by ICP-MS VOC 8260 (S) Field Extracted

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Client Sample ID: 17563-B5S1	ny yr uno briodel y blader ef serefer ef felef a galenna skarter fel felef yn felef af felefan de felefan yr fe			
Lab Sample ID: 1130981006	Parameter	<u>Result</u>	<u>Units</u>	
Metals by ICP/MS	Arsenic	3.15	mg/Kg	
	Barium	67.5	mg/Kg	
	Cadmium	0.248	mg/Kg	
	Chromium	18.4	mg/Kg	,
	Lead	2.86	mg/Kg	
	Mercury	0.0377J	mg/Kg	
	Selenium	0.167J	mg/Kg	
	Silver	0.0452J	mg/Kg	
Client Sample ID: 17563-B6S4				
Lab Sample ID: 1130981007	Parameter	<u>Result</u>	<u>Units</u>	
Metals by ICP/MS	Arsenic	5.18	mg/Kg	1
	Barium	58.8	mg/Kg	
	Cadmium	0.272	mg/Kg	
	Chromium	25.1	mg/Kg	
	Lead	. 3.04	.mg/Kg	
	Mercury	0.0446	mg/Kg	
•	Silver	0.0571J	mg/Kg	
Volatile Fuels	Gasoline Range Organics	0.786J	mg/Kg	
Volatile GC/MS	4-isopropyltoluene	7.85J	.ug/Kg	
	Benzene	6.28J	ug/Kg	
Client Sample ID: 17563-B6S6				
Lab Sample ID: 1130981008	Parameter	<u>Result</u>	<u>Units</u>	
Volatile Fuels	Gasoline Range Organics	1.01J	mg/Kg	
Client Sample ID 17563-STB				
Lab Sample ID: 1130981010	Pàrameter	Result	Units	
Volatile Fuels	Gasoline Range Organics	0,785J	mg/Kg	

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· · · · · · · · · · · · · · · · · · ·	Detectable Results Summary	· · ·		
Client Sample ID: 17563-B1S1	######################################	(\$1000000000000000000000000000000000000	A) 64.6149-397-11 6360-14. (HHS): BJ4-73483; UVCCCR, FBHVB HBJ40743JB	di abahangi matanan aranat
Lab Sample ID: 1130981001	Parameter	Result	Units 1	
Metals by ICP/MS	Arsenic	3.16	ma/Ka	
······································	Barium	45.2	ma/Ka	
	Cadmium	0.187	ma/Ka	
	Chromium	14.3	ma/Ka	
	Lead	2.78	ma/Ka	
-	Mercury	0.0613	ma/Ka	
Volatile GC/MS	1.2.4-Trimethylbenzene	44 0.1	ua/Ka	
Polatilo Colino	1 3 5-Trimethylbenzene	36.0	ug/Kg	
	4-Isopronyltoluene	70.1	ug/Kg	•.
•	n-Propylenzene	45.11	ug/Kg	
	o-Xvlene	20.21	ug/Ng ug/Kg	
		30.23	ug/Kg	
	r a w - Aylene	30.5J	ug/Kg	
	Stylene .	15.1J	ug/Kg	
	Aylenes (total)	68.7J	ug/Kg	
Client Sample ID: 17563-B2S1		•		
Lab Sample ID: 1130981002	Parameter	Result	Units	
Metals by ICP/MS	Arsenic	3.32	mg/Kg	
-	Barium	47.0	ma/Ka	
	Cadmium	0.267	ma/Ka	
	Chromium	15.9	ma/Ka	
	Lead	2.91	ma/Ka	
· .	Mercury	0.0551	ma/Ka	
	Selenium	0.140.1	mg/Kg	
	Silver	0.03001	mg/Kg	
Volatila GC/MS	1.3.5-Trimethylbenzene	6 32 1	ingatg i ualKa	•
Volatile Go/MS		8.021	ug/Kg	•
	4-isopropyitolitelle	5.020	ug/Kg	
· · ·	Denzene	0,000	ug/Kg	
Client Sample ID: 17563-B3S4	•			
Lab Sample ID: 1130981003	Parameter	<u>Result</u>	Units	
Volatile GC/MS	1,2,4-Trichlorobenzene	12.7J	ug/Kg	
	1,3,5-Trimethylbenzene	8,45J	ug/Kg	
	4-IsopropyItoluene	9.86J	ug/Kg	
	n-Butylbenzene	7.51J	ua/Ka	
Client Completion 47560 B469	•		-00	
Client Sample ID: 17563-8453		. '		
Lab Sample ID: 1130981004	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	
Volatile Fuels	Gasoline Range Organics	1.12J	mg/Kg	
	·			
· .			1	
an na malana manana manana sina sa kana kana ka sa	n Tradition den der der der under die Traditione Fanden bezeichnen der Berger (einer ihren der straditioner under straditioner vorder vorde	NM-15 (2014)-17(2-19)-17 (2), 174-162) V#-14024		si zazio di successi di successi
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SGS North America Inc.	200 West Potter Drive, Anchorage, AK 99518	÷		
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Results of 17563-B1S1

SG

Client Sample ID: 17563-B1S1 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981001 Lab Project ID: 1130981

Collection Date: 03/18/13 09:20 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 96.7

Results by Metals by ICP/MS

	Contractor and the second second second	12.020303000140				•	
Parameter	Result	Qual	LOQ/CL	DL	<u>Units</u>	DF	Date Analyzed
Areonio	3.16		0.924	0.287	mg/Kg	10	03/27/13 18:02
Barium	45.2		0.277	0.0869	mg/Kg	10	03/27/13 18:02
Cadmium	0.187		0.185	0.0573	mg/Kg	10	03/27/13 18:02
Chromium	14.3		0.370	0.111	mg/Kg	10	03/27/13 18:02
Lead	2.78		0.185	0.0573	mg/Kg	10	03/27/13 18:02
Mercury	0.0613		0.0370	0.0111	mg/Kg	10	03/27/13 18:02
Selenjum	0.278	U	0.462	0,139	mg/Kg	10	03/27/13 18:02
Silver	0:0574	U	0.0924	0.0287	mg/Kg	10	03/27/13 18:02
Batch Information	autorial (or metalous) (the amesica) de suis (t	tanna sallarafa aida	an a	್ಷ ಆರ್. ಆ ಕ್ರಾಮಿಸಿದ್ದರು, ಶಿಕ್ಷಣ ಮಿತ್ತು ಸಹಿತಿಗಳು	natural da nizikarangendi (itali	the fill an amalysing sources	n an
Analytical Batch: MMS7916			F	Prep Batch: MX	X26373		
Analytical Method: SW6020			F	Prep Method: S	W3050B		

Analyst: ACF Analytical Date/Time: 03/27/13 18:02 Container ID: 1130981001-A

Prep Date/Time: 03/27/13 13:00 Prep Initial Wt.Nol.: 1.119 g

Prep Extract Vol: 50 mL

Print Date: 04/03/2013 2:03:37PM

SGS North America Inc.

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Reculto of 17563-D191	-No.P.D.P.M. SEPARATION - A. B. MAR		Ι.	•			
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Client Sample ID: 17563-B1S1	1997 - 1999 - 1999 1997 -			Collectio	on Date: 03/18/	13 09:20	
Client Project ID: 32-1-17563-001 1	1802 Knik C	loosé		Receive	d Date: 03/19/1	3 12:45	
Lab Sample ID: 1130981001				Matrix: S	Soil/Solid (dry w	/eight)	· · · · ·
Lab Project ID: 1130981	•	· · · ·		Solids (%	6): 96. 7	· ·	
Prime and the state of the stat	•						
Results by Semivolatile Organic F	uels		1511014-1628-0101-0104-2-max-max-max-max-	ing constructions in community we construct any first house that	· ·		an der Barrister
		anna a san ¹					ни на сели и полнова и народије на вис а се
Parameter	Result	Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
Diesel Range Organics	12.7	U	20.5	6.37	mg/Kg	1	04/01/13 12:48
Surrogates							
5a Androstane			50 150	• .	0/		
	00.5		00-100		%	1	04/01/13 12:48
Batch Information	nan 100 1002257 webint for the Correct Council on the	TOTO A COMPANY AND A COMPANY	l Intelligence the state of the	átá le mendezette bet ázirte vozbere zágarti sege	MENNELSE AND	1	
Analytical Batchy VEC40040							
Analytical Method: AK1021		•		Prep Batch: X	XX28830		
Analyst: EAB				Prep Method; =	5773550C a. 03/20/13 11.2/	n	
Analytical Date/Time: 04/01/13 12:48	3			Prep Initial Wt./	Vol.: 30.223 a	5	
Container ID: 1130981001-A				Prep Extract Vo	ol: 1 mL		•
1.1. mile menulasisti (17.17.1.). 1.1. mile menulasisti (17.17.1.).		hi Mill hadd mort have the part of		and the true where the first of these means are supply systems.			
Parameter	Result	Qual	LOQ/CL	DL	Units	DE	Date Analyzed
Residual Range Organics	12.7	11	20.5	<u></u> 6 37	malka	4	
	,	0	20,0	0.01	mg/Ng	1	04/01/13 12:48
urrogates					· 		
n-Triacontane-d62	102		50-150		. %	1	04/01/13 12:48
n Andread American Tana Banana Ang ka kana yang ka kana yang ka kana ka							
Batch information	ANY CONSISTS ASSOCIATED AND COMPANY	an yang mengerakan kanalang da	n sa kanang ng kanang kanan Kanang kanang	n naard gever statistication op de op selecte service	19 MAY ARE TRANSPORTATION TO COMPLEX AND SHOP 1/2: +	ernen meret i septimise ordate	ayayan inge mga anga ang ang ang ang ang ang ang ang
4.12.12、14.45.03%(A.2.56.14.12),A.14.16.16.16.16.16.16.16.16.16.16.16.16.16.							
Analytical Batch: XFC10848				Prep Batch: XX	X28830	•	
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Method: AK103				Prep Batch: XX Prep Method: S	X28830 SW3550C		•
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48				Prep Batch: XX Prep Method: S Prep Date/Time	(X28830 SW3550C : 03/29/13 11:20		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 SW3550C : 03/29/13 11:20 Vol.: 30.223 g		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./N Prep Extract Vo	(X28830 3W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A		-	1 1	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		r addression and a productor scores
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			amora da se	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL	NEM (Moderne source) y .	n with an address star from the star of the start of th
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A		-	anna baga ng panganana a sa ng	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 3W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	1 191 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 930 - 93	intercent of the second		Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt.A Prep Extract Vo	(X28830 3W3550C : 03/29/13 11:20 /ol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	-	nymoticit eval - venery	40001/10000 400 ⁰ 0001/1001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/10001/1000	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt.A Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		a alatalat manangalar salara kundukatan an ing a
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A		International constraints	arrenta de conferencia en conferencia de conferencia de conferencia de conferencia de conferencia de conferencia	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		r, mil i suide na ann agus an ann agus an ann agus agus agus agus agus agus agus agus
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			annig state and an good and a state of a	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		n ni antinana ang kanala k
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		*. ***
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Tíme: 04/01/13 12:48 Container ID: 1130981001-A	*****			Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Date/Time: 04/01/13 12:48 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			amalanan ingin manakanan	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			alaan (kalanga ada) ang kalanga kalang	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		ч. «Малиминиция на на округа ранициа на округа на
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		9. 992.000 11.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10.000 10
Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A		۱۹۹۳ - ۱۹۹۳ (۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ - ۱۹۹۹ -	900000 000 ⁰ 000 00000000000000000000000	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			annill baar ang na baranan - rona	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 SW3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A			антрона и допалоница —	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt.A Prep Extract Vo	X28830 \$W3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	200 West Pot	ter Drive	Anchorage	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt.A Prep Extract Vo	X28830 SW3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	200 West Pot	ter Drive 3 f 907.	Anchorage	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./A Prep Extract Vo	(X28830 SW3550C : 03/29/13 11:20 Vol.: 30.223 g I: 1 mL		
Analytical Batch: XFC10848 Analytical Method: AK103 Analytical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	200 West Pot	ter Drive 3 f 907 .	Anchorage 561.5301 w	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 SW3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		ember of SGS Group
Analyfical Batch: XFC10848 Analyfical Method: AK103 Analyfical Date/Time: 04/01/13 12:48 Container ID: 1130981001-A	200 West Pot	ter Drive 3 f 907.	Anchorage	Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./A Prep Extract Vo	(X28830 SW3550C : 03/29/13 11:20 Vol.; 30.223 g I: 1 mL		ember of SGS Group 8 of 70

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Results of 17563-B1S1 Client Sample ID: 17563-B1S1 Client Project ID: 32-1-17563-001 180 Lab Sample ID: 1130981001 Lab Project ID: 1130981	2 Knik Go	Dose		Collection Received Matrix: S Solids (%) Date: 03/18/ Date: 03/19/ oil/Solid (dry v): 96.7	13 09:20 13 12:45 veight)	
yan waxaanaa ahaanaa ahaanaa ahaa ahaa ahaa a			ne al la casa				NAV AND STATEMENT OF THE S
Results by volatile rueis	WHEN TO THE REAL	HIATANA (an the start of the start of million starts in the				
Parameter	<u>Result</u>	Qual	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Date Analyzed
Gasoline Range Organics	1.85	Ų	. 3.08	0.924	mg/Kg	1	03/27/13 14:42
Surrogates		·		1			
4-Bromofluorobenzene	97		50-150		%	1	03/27/13 14:42
Batch Information		el Pripado altradation	ang national ta manage manage an annan a P	an da an	nani kana kana kakata kana pagana di maningka di Ka	ng gan tangar sa sa mar taka 160 V da	rau po mora apresidada internatives constituentes y provestores de 1990 de 1990 de sectores activitas
Applytical Patch: VEC11381				Prep Batch: V	XX24591		
Analytical Method: AK101				Prep Method:	SW5035A		
Analysica Method: Artist				Prep Date/Time	e: 03/18/13 09:	20	
Analytical Date/Time: 03/27/13 14:42			•	Prep Initial Wt.	/Vol.: 44.459 g		<i>i</i>
Container ID: 1130981001-B				Prep Extract Vo	ol: 26.4753 mL		

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B1S1

Lient Sample ID: **17563-B1S1** Client Project ID: **32-1-17563-001 1802 Knik Goose** Lab Sample ID: **11**30981001 Lab Project ID: **11**30981

Collection Date: 03/18/13 09:20 Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%): 96.7

Results by Volatile GC/MS

Parameter	<u>Result</u>	Qual	LOQ/CL	DL	Units	DF	Date Analyzed
1,1,1,2-Tetrachloroethane	· 19.2	U	30,8	9.61	ua/Ka	1	03/27/13 23:43
1,1,1-Trichloroethane	19.2	U	30.8	9.61	- <u>-</u>	1	03/27/13 23:43
1,1,2,2-Tetrachloroethane	37.0	U	61.6	18.5	ua/Ka	1	03/27/13 23:43
1,1,2-Trichloroethane	19.2	U	30.8	9.61	ug/Ka	1	03/27/13 23:43
1,1-Dichloroethane	19.2	υ	30.8	9.61	ua/Ka	1	03/27/13 23:43
1,1-Dichloroethene	19:2	U	30.8	9.61	ug/Kg	1 .	03/27/13 23:43
1,1-Dichloropropene	19.2	U	30.8	9.61	ua/Ka	1	03/27/13 23.43
1,2,3-Trichlorobenzene	37.0	U	61.6	18.5	ug/Kg	1	03/27/13 23:43
1,2,3-Trichloropropane	19.2	IJ	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,2,4-Trichlorobenzene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,2,4-Trimethylbenzene	44.0	J.	61.6	18,5	ug/Kg	1	03/27/13 23:43
1,2-Dibromo-3-chloropropane	76.4	U	123	38,2	ug/Kg	1	03/27/13 23:43
1,2-Dibromoethane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,2-Dichlorobenzene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,2-Dichloroethane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,2-Dichloropropane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,3,5-Trimethylbenzene	36.0		30.8	9.61	ug/Kg	1	03/27/13 23:43
1,3-Dichlorobenzene	. 19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
1,3-Dichloropropane	19.2	U	30.8	9.61	. ug/Kg	1	03/27/13 23:43
1,4-Dichlorobenzene	19.2	U	· 30.8	9.61	ug/Kg	1	03/27/13 23:43
2,2-Dichloropropane	19,2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
2-Butanone (MEK)	192	U	308	96.1	ug/Kg	1	03/27/13 23:43
2-Chlorotoluene	19.2	·U	30.8	9.61	ug/Kg	1	03/27/13 23:43
2-Hexanone	192	U	308	96.1	ug/Kg	1	03/27/13 23:43
4-Chlorotoluene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
4-Isopropyltoluene	79,1		30,8	9.61	. ug/Kg	1	03/27/13 23:43
4-Methyl-2-pentanone (MIBK)	192	U	308	96.1	ug/Kg	1	03/27/13 23:43
Benzene	9.60	U	15.4	4.80	ug/Kg	1	03/27/13 23:43
Bromobenzene	19.2	U	30,8	9.61	ug/Kg	1	03/27/13 23:43
Bromochloromethane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Bromodichloromethane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Bromoform	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Bromomethane	153	U	. 246	76.4	ug/Kg	1	03/27/13 23:43
Carbon disulfide	76.4	U	123	38,2	ug/Kg	1	03/27/13 23:43
Carbon tetrachloride	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Chlorobenzene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Chloroethane	153	U	246	76.4	ug/Kg	1	03/27/13 23:43
Chloroform	19.2	U.	30.8	9.61	ug/Kg	1	03/27/13 23:43
Chloromethane	19.2	U	30,8	9.61	ug/Kgʻ	1	03/27/13 23:43
cis-1,2-Dichloroethene	19.2	U	30,8	9.61	ug/Kg	1 .	03/27/13 23:43
cis-1,3-Dichloropropene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Dibromochloromethane	19.2	U	30.8	9.61	ug/Kg	1 ·	03/27/13 23:43
Dibromomethane	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Dichlorodifluoromethane	· 37.0	U	61.6	18.5	ug/Kg	1	03/27/13 23:43
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Member of SGS Group

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-Results of 17563-B1S1

Client Sample ID: 17563-B1S1 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981001 Lab Project ID: 1130981

Collection Date: 03/18/13 09:20 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 96.7

Results by Volatile GC/MS

		a a carriera da					
<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
Ethylbenzene	19.2	υ	30.8	9.61	ug/Kg	1	03/27/13 23:43
Hexachlorobutadiene	37.0	U	61.6	· 18.5	ug/Kg	1	03/27/13 23:43
lsopropylbenzene (Cumene)	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Methyl-t-butyl ether	76.4	U	123	38.2	ug/Kg	1	03/27/13 23:43
Methylene chloride	76.4	U	123	38.2	ug/Kg	1	03/27/13 23:43
n-Butylbenzene	19.2	U	30.8	9,61	ug/Kg	1	03/27/13 23:43
n-Propylbenzene	15.1	J	30.8	9,61	ug/Kg	1	03/27/13 23:43
Naphthalene	37.0	U	61.6	18.5	ug/Kg	1.	03/27/13 23:43
o-Xylene	30.2	J	30.8	9.61	ug/Kg	1 .	03/27/13 23:43
P & M -Xylene	38.5	J	61.6	18.5	ug/Kg	- 1	03/27/13 23:43
sec-Butylbenzene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Styrene	15.1	J	30.8	9.61	ug/Kg	1	03/27/13 23:43
tert-Butylbenzene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Tetrachloroethene	9,60	ບ່	15.4	4.80	ug/Kg	1	03/27/13 23;43
Toluene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
trans-1,2-Dichloroethene	,19.2	υİ	30,8	9.61	ug/Kg	1	03/27/13 23:43
trans-1,3-Dichloropropene	19.2	U	30.8	9.61	ug/Kg	1	03/27/13 23:43
Trichloroethene	9,60	U	15,4	4.80	ug/Kg	1	03/27/13 23:43
Trichlorofluoromethane	37.0	U	61.6	18.5	ug/Kg	1	03/27/13 23:43
Vinyl chloride	19.2	U	30,8	9.61	ug/Kg	1	03/27/13 23:43
Xylenes (total)	68.7	Ĵ	123	38.2	ug/Kg	1	03/27/13 23:43
Surrogates							
1,2-Dichloroethane-D4	122	* .	79-118		%	<u></u> 1	03/27/13 23:43
4-Bromofluorobenzene	106		67-138		%	1	03/27/13 23:43
Toluene-d8	112		85-115		%	1	03/27/13 23:43
	1		an in an the second state of the state of the state of the second state of the stat	e and a second second second second second	ana mari fan arta dawana wa namena ya dawana ku	and address of the second states of the	- 117474.04 - 1.271473 - 1747 6 42122 - 177683 - 1777 - 1776
	a na baran mengapan kerangkan di kepada kana karangkan baran kerangkan di k	a wa mataka kata m	nang mananan di kata kata kata kata kata kata kata kat				n ann ann an Anna an An
Analytical Batch: VMS13430			ł	rep Batch: VX	X24585		

Analytical Batch: VMS13430 Analytical Method: SW8260B Analyst: HM Analytical Date/Time: 03/27/13 23:43 Container ID: 1130981001-B Prep Batch: VXX24085 Prep Method: SW5035A Prep Date/Time: 03/18/13 09:20 Prep Initial Wt./Vol.: 44.459 g Prep Extract Vol: 26.4753 mL

Print Date: 04/03/2013 2:03:37PM

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Collection Date: 03/19/13 10:00 Client Project ID: 17363-B231 Client Project ID: 1130981002 Lab Sample ID: 1130981002 Sautits by Metale by ICP/MS Solids (%): 97.2 Parameter Result Qual 2arameter Result Qual Collection Date: 03/19/13 10:00 Project ID: 1130981 Parameter Result Qual Collection Date: 03/19/13 10:00 Parameter Result Qual Deroject ID: 1130981 Parameter Result Qual Collection Date: 03/19/13 10:00 Parameter Result Qual Collection Date: 03/19/13 10:00 Parameter Result Qual Collection Date: 03/19/13 10:00 Parameter 0.057 Stromhum 0.267 O.077 mg/Kg 10 Stromhum 0.178 0.0553 Stromhum 0.178 0.0577 Stromhum 0.0460 0.0460 <td< th=""><th>5G5</th><th></th><th></th><th>•</th><th></th><th>· .</th></td<>	5 G 5			•		· .	
Construction Collection Date: 03/16/13 10:00 Collent Project ID: 3:32-1477563-001 1802 Knik Goose Collection Date: 03/16/13 10:00 Eab Sample ID: 1130981002 Collection Date: 03/16/13 10:00 Results by Metals by 102/MS Solids (%): 97.2 Solids (%): 97.2 Parameter Result Qual LOO/CL DL Units De atomaty and the second s	Pool the of 17562 P261	94-1979 E-1986 STANKED STATE - 1768 ADV-17 EXEMPTY AND					
Results by Metals by ICP/MS Dite Dete Analyze Parameter Result Qual LOQ/CL DL Units DE Date Analyze Americ 3.32 0.892 0.277 mg/Kg 10 03/27/13 18: Safurm 47.0 0.268 0.0839 mg/Kg 10 03/27/13 18: Scarmium 0.267 0.178 0.0653 mg/Kg 10 03/27/13 18: Scarmium 0.551 0.0357 0.107 mg/Kg 10 03/27/13 18: Jeen/um 0.140 J 0.466 0.134 mg/Kg 10 03/27/13 18: Selen/um 0.140 J 0.468 0.134 mg/Kg 10 03/27/13 18: Satch Information	Results of 17563-B2S1 Client Sample ID: 17563-B2S1 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981002 Lab Project ID: 1130981			Collection Date: 03, Received Date: 03/ Matrix: Soll/Solid (d Solids (%): 97.2	Collection Date: 03/18/13 10:00 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 97.2		
Barameter Result Qual LOQ/CL DL Units DE Date Analyze Ansenic 3.32 0.892 0.277 mg/Kg 10 03/27/13 18:1 Sartum 47.0 0.268 0.0633 mg/Kg 10 03/27/13 18:1 Cadmium 0.287 0.178 0.0553 mg/Kg 10 03/27/13 18:1 Scanneter 2.91 0.178 0.0553 mg/Kg 10 03/27/13 18:1 Selentum 0.0551 0.0357 0.0107 mg/Kg 10 03/27/13 18:1 Selentum 0.140 J 0.446 0.134 mg/Kg 10 03/27/13 18:1 Selentum 0.0399 J 0.0892 0.0277 mg/Kg 10 03/27/13 18:1 Selentum 0.0399 J 0.0892 0.0277 mg/Kg 10 03/27/13 18:1 Sarder Prep Performe 0.0377 mg/Kg 10 03/27/13 18:1 Analytical Method: SW6020 Prerep Method: SW0300B	Results by Metals by ICP/MS		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	Alexandroni și zvenu nacendeți docensi i zastan nestorem nestorem semantere entre	ancentent Antempologia metropologia de la contra de la cont	NUSA TI AMORTO MANIMATINA MININA M	
Batch Information Prep Batch: MXX26373 Analytical Batch: MXS7916 Prep Method: SW3050B Analytical Date/Time: 03/27/13 18:15 Prep Date/Time: 03/27/13 13:00 Container ID: 1130981002-A Prep Date/Time: 03/27/13 13:05	Parameter Arsenic Barium Cadmium Chromlum Lead Mercury Selenium Silver	Result Qual 3.32 47.0 0.267 15.9 2.91 0.0551 0.140 J 0.0399 J	LOQ/CL 0.892 0.268 0.178 0.357 0.178 0.0357 0.446 0.0892	DL Units 0.277 mg/K 0.0839 mg/K 0.0553 mg/K 0.107 mg/K 0.0553 mg/K 0.0553 mg/K 0.0107 mg/K 0.1107 mg/K 0.0107 mg/K 0.0107 mg/K 0.0107 mg/K	DF g 10 g 10	Date Analyzec 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11 03/27/13 18:11	
	Batch Information	n marsketský fyriter to uzor i svenovat norsketní kleny predstava 	a da nor variante esta da norda de reservadadese da nación	an a	a na maanaalaa danaa ah waxaa daxaa maaraa	ana arawan arawa na marangka bakira dan bahasa I	
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18: Container ID: 1130981002-A	:15	Pr Pr Pr Pr Pr	ep Batch: MXX26373 ep Method: SW3050B ep Date/Time: 03/27/13 ep Initial Wt./Vol.: 1.153 ep Extract Vol: 50 mL	13:00 g		
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pi Pr Pr Pr	ep Batch: MXX26373 ep Method: SW3050B ep Date/Time: 03/27/13 ep Initial Wt./Vol.: 1.153 ep Extract Vol: 50 mL	13:00 g	иа. Посторија по опосно и ос	
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pr Pr Pr Pr	ep Batch: MXX26373 ep Method: SW3050B ep Date/Time: 03/27/13 ep Initial Wt./Vol.: 1.153 ep Extract Vol: 50 mL	13:00 g	-	
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pi Pi Pi Pi	rep Batch: MXX26373 rep Method: SW3050B rep Date/Time: 03/27/13 rep Initial Wt./Vol.: 1.153 rep Extract Vol: 50 mL	13:00 g		
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pi Pr Pr Pr	rep Batch: MXX26373 rep Method: SW3050B rep Date/Time: 03/27/13 rep Initial Wt./Vol.: 1.153 rep Extract Vol: 50 mL	13:00 g		
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pi Pr Pr	rep Batch: MXX26373 rep Method: SW3050B rep Date/Time: 03/27/13 rep Initial Wt./Vol.: 1.153 rep Extract Vol: 50 mL	13:00 g		
	Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18 Container ID: 1130981002-A	:15	Pi Pr Pr	rep Batch: MXX26373 rep Method: SW3050B rep Date/Time: 03/27/13 rep Initial Wt./Vol.: 1.153 rep Extract Vol: 50 mL	13:00 g		

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B2S1 Client Sample ID: 17563-B2S1 Collection Date: 03/18/13 10:00 Received Date: 03/19/13 12:45 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981002 Matrix: Soll/Solid (dry weight) Solids (%): 97.2 Lab Project ID: 1130981 Results by Semivolatile Organic Fuels <u>Parameter</u> Result Qual LOQ/CL DL <u>Units</u> DF Date Analyzed **Diesel Range Organics** 12.7 Ū 20.5 6,36 1 mg/Kg 04/01/13 13:09 Surrogates 5a Androstane 87.6 50-150 % 04/01/13 13:09 1 Batch Information Analytical Batch: XFC10848 Prep.Batch: XXX28830 Analytical Method: AK102 Prep Method: SW3550C Analyst: EAB Prep Date/Time: 03/29/13 11:20 Analytical Date/Time: 04/01/13 13:09 Prep Initial Wt./Vol.: 30.111 g Container ID: 1130981002-A Prep Extract Vol: 1 mL . <u>Parameter</u> Result Qual LOQ/CL DL Units DF Date Analyzed Residual Range Organics U 20.5 6.36 12.7 04/01/13 13:09 mg/Kg 1 Surrogates n-Triacontane-d62 98.9 50-150 04/01/13 13:09 % 1 **Batch Information** Analytical Batch: XFC10848 Prep Batch: XXX28830

Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 13:09 Container ID: 1130981002-A Prep Batch: XXX28830 Prep Method: SW3550C Prep Date/Time: 03/29/13 11:20 Prep Initial Wt./Vol.: 30.111 g Prep Extract Vol: 1 mL

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B2S1	14.07.127.150.150.000.000.000	No. 771 (1993) and a		nga ayan daharing menalah	er on de fan de ferskeren in ondere er en sen en sen er en s		unife a sala sing conception of the birthin	Nex 19:30/0341 Orean Address Office State
Client Sample ID: 17563-B2S1 Client Project ID: 32-1-17563-001 1802 Lab Sample ID: 1130981002 Lab Project ID: 1130981	knik G	DOSe			Collection D Received D Matrix: Soi Solids (%):	Date: 03/18/1 pate: 03/19/13 I/Solid (dry we 97.2	3 10:00 3 12:45 ∋ight)	
Results by Volatile Fuels	a and a second second			สารระบบสาร	an the state of the	NERSIALISINI LÜÜÜDIN VÄÖNDANIMI		uturera no turbe ancher a tra seno con a tiperta de partecia de sero
Parameter Gasoline Range Organics	<u>Result</u> 1.02	<u>Qual</u> U	<u>LOQ/CL</u> 1.71	·	<u>DL</u> 0.512	<u>, Units</u> mg/Kg	<u>DF</u> 1	<u>Date Analyzed</u> 03/27/13 15:00
Surrogates 4-Bromofluorobenzene	98.1		50-150			%	1	03/27/13 15:00
Batch Information Analytical Batch: VFC11381 Analytical Method: AK101 Analyst; ST Analytical Date/Time: 03/27/13 15:00 Container ID: 1130981002-B	aan van etal oo da 14 min 640		****	Prep Prep Prep Prep Prep	Batch: VXX Method: SW Date/Time: Initial Wt./Vc Extract Vol:	24591 V5035A 03/18/13 10:00 I.: 82,319 g 27,3175 mL		2002.2.09000000000000000000000000000000
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Results of 17563-B2S1 Client Sample ID: 17563-B2S1 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981002 Lab Project ID: 1130981

Collection Date: 03/18/13 10:00 Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%): 97.2

Results by Volatile GC/MS	an a	erversteatteer	an a	anna without and a state to the state of the	CITATION CONTRACTOR AND A CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF CONTRACTOR OF C	W.6.200000111100000	and a second design of the second of the
Parameter	Result	Qual	LOQ/CL	DL	Units	DE	Date Analyzed
	10.7	11	17.1	5.33	ua/Ka	1	03/28/13 00:11
1,1,1,2-letrachtoroethane	10.7	й П	17.1	5.33	ug/Kg	1	03/28/13 00:11
1,1,1-1 nonioroeunane	20.4	÷ŭ	34.1	10.2	ug/Ka	1	03/28/13 00:11
1,1,2,2-1etrachioroethane	20.4	ŭ	17.1	5.33	ug/Ka	1	03/28/13 00:11
1,1,2-, nonoroeunane	10.1	ň	17.1	5.33	ua/Ka	1	03/28/13 00:11
1,1-Dichloroethane	10.7	ň	17.1	5.33	ua/Ka	1.	03/28/13 00:11
	10.7	ň	17.1	5.33	ua/Ka	1	03/28/13 00:11
1,1-Dichioropropene	20.4	ň	34.1	10.2	ua/Ka	1 .	03/28/13 00:11
1,2,3-Thermolopenzene	10.7	ŭ	17.1	5.33	ua/Ka	1	03/28/13 00:11 .
1,2,3- Inchloropropane	10.7	ŭ	17.1	5.33	ua/Ka	1	03/28/13 00:11
1.2.4 Trimothylbanzene	20.4	ŭ	34.1	10.2	ua/Ka	1	03/28/13 00:11
1,2,44 (Timeuryibenzene 1,2 Dibromo 3 chloropropape	42.4	Ŭ	68.3	21.2	ug/Kg	1	03/28/13 00:11
1.2 Dibromostbano	10.7	ů	17.1	5.33	ua/Ka	1	03/28/13 00:11
1.2-Diptomoenano	10.7	Ŭ	17.1	5.33	ug/Kg	1	03/28/13 00:11
1.2 Dichloroethane	10.7	Ŭ	17.1	5.33	ug/Kg	1	03/28/13 00:11
1:2 Dichloropropage	10.7	Ŭ	17.1	5.33	ug/Kg	1	03/28/13 00:11
1.3.5.Trimethylbenzene	6.32		17.1	5,33	ug/Kg	1	03/28/13 00:11
1.3 Dichlorobenzene	10.7	Ŭ	17.1	5.33	ug/Kg	1	03/28/13 00:11
1.3-Dichloropropape	10.7	Ū	17.1	5.33	ug/Kg	1.	03/28/13 00:11
1.4-Dichloropenzene	10.7	Ú	17.1	5.33	ug/Kg	1	03/28/13 00:11
2 2-Dichloropropane	10.7	Ū	17.1	5.33	ug/Kg	1	03/28/13 00:11
2-Butanone (MEK)	107	U	171	53.3	ug/Kg	1	03/28/13 00:11
2-Chlorotoluene	10.7	U	17.1	5.33	ug/Kg	1	03/28/13 00:11
2-Hexanone	. 107	U	171	53.3	ug/Kg	1	03/28/13 00:11
4-Chlorotoluene	10.7	່ບ	17.1	5.33	ug/Kg	1	03/28/13 00:11
4-lsonropyitoluene	8.02	J	17.1	5.33	ug/Kg	1	03/28/13 00:11
4-Methyl-2-pentanone (MIBK)	107	Ù	17 1	53.3	ug/Kg	1	03/28/13 00:11
Benzene	5,63	J	8,54	2.66	ug/Kg	1	03/28/13 00:11
Bromobenzene	10.7	U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Bromochloromethane	10.7	U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Bromodichloromethane	10.7	U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Bromoform	10.7	'U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Bromomethane	84.6	ιU	137	42.3	ug/Kg	1	03/28/13 00:11
Carbon disulfide	42.4	U	68,3	21.2	ug/Kg	1	03/28/13 00:11
Carbon tetrachloride	10.7	ν U	• 17 .1	5.33	ug/Kg	1	03/28/13 00:11
Chlorobenzene	10.7	υ	17.1	5.33	ug/Kg	1	03/28/13 00:11
Chloroethane	84.6	6 U	137	42.3	ug/Kg	. 1	03/28/13 00:11
Chloroform	10.7	'U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Chloromethane	10.7	'U	17.1	5.33	ug/Kg	1	03/28/13 00:11
cis-1,2-Dichloroethene	10.7	'U	17.1	5.33	ug/Kg	1	03/28/13 00:11
cis-1,3-Dichloropropene	10.7	V U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Dibromochloromethane	10.7	' U	17.1	5.33	ug/Kg	1	03/28/13 00:11
Dibromomethane	10.7	r U	17.1	5,33	ug/Kg	1	03/28/13 00:11
Dichlorodifluoromethane	20.4	t U	34.1	10.2	ug/Kg	1	03/28/13 00:11
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SG Results of 17563-B2S1 n na marana ang kanang kana Client Sample ID: 17563-B2S1 Collection Date: 03/18/13 10:00 Client Project ID: 32-1-17563-001 1802 Knik Goose Received Date: 03/19/13 12:45 Lab Sample ID: 1130981002 Matrix: Soil/Solid (dry weight) Lab Project ID: 1130981 Solids (%): 97.2 Results by Volatile GC/MS CHARLEN BOOK PROCESSION SHOULD STATE STATES NEW STREET, BUT HER STREET, ST Parameter Result Qual LOQ/CL DL Units Ethylbenzene 10.7 U 17.1 5.33 ug/Kg Hexachlorobutadiene 20.4 U 34.1 10.2 ug/Kg Isopropylbenzene (Cumene) 10.7 U 17.1 5.33 ug/Kg Methyl-t-butyl ether 42.4 U 68.3 21.2 ug/Kg Methylene chloride U 42,4 68.3 21.2 ug/Kg n-Butylbenzene 10.7 U 17.1 5.33 ug/Kg n-Propylbenzene U 10.7 17.1 5.33 Naphthalene 20.4 U 34.1 10,2

1 03/28/13 00:11 ug/Kg 1 03/28/19 00:11 ug/Kg 03/28/13 00:11 1 o-Xylene 10.7 U 17.1 5.33 ug/Kg 03/28/13 00:11 1 P & M -Xylene 20.4 U 34.1 10,2 ug/Kg 1 03/28/13 00:11 sec-Butylbenzene 10.7 U 17,1 5.33 ug/Kg 03/28/13 00:11 1 Styrene 10.7 U 17.1 5.33 ug/Kg 03/28/13 00:11 1 tert-Butylbenzene 10.7 Ų 17.1 5.33 ug/Kg 03/28/13 00:11 1 Tetrachloroethene 5.32 U 8.54 2,66 ug/Kg 03/28/13 00:11 1 Toluene 10.7 17.1 U 5.33 ug/Kg 1 03/28/13 00:11 trans-1,2-Dichloroethene 10.7 U. 17.1 5.33 ug/Kg 03/28/13 00:11 trans-1,3-Dichloropropene 10.7 17.1 U 5.33 ug/Kg 03/28/13 00:11 Trichloroethene 5.32 U 8.54 2,66 ug/Kg 03/28/13 00:11 Trichlorofluoromethane 20.4 U 34.1 10.2 ug/Kg 03/28/13 00:11 1 Vinyl chloride ug/Kg 10.7 U 17.1 5.33 03/28/13 00:11 1 Xylenes (total) 42.4 U 68,3 21.2 ug/Kg 1 03/28/13 00:11 Surrogates 1,2-Dichloroethane-D4 118 79-118 % 03/28/13 00:11 1 4-Bromofluorobenzene 110 67-138 % 1 03/28/13 00:11 Toluene-d8 114 85-115 % 03/28/13 00:11 1 Batch Information Manager in the second second second second second Analytical Batch: VMS13430 Prep Batch: VXX24585 Analytical Method: SW8260B Prep Method: SW5035A

Analyst: HM Analytical Date/Time: 03/28/13 00:11 Container ID: 1130981002-B

Prep Date/Time: 03/18/13 10:00 Prep Initial Wt./Vol.: 82.319 g Prep Extract Vol: 27.3175 mL

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Date Analyzed

03/28/13 00:11

03/28/13 00:11

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03/28/13 00:11

03/28/13 00:11

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B3S4	farmer and the second		ngé ng mangangangang pangang mangang mangang kanala di di pangkang mangang mangang kanala di pangkang kanala di	a maanaalmachaisedin (1908) yoo ahaanay maanaaalmiiddii	ANY ON COMPANY ANY ANY ANY ANY ANY ANY ANY ANY ANY	nya amin'ny faritr'o dia mampika dia mampika dia dia dia dia dia dia dia dia dia di
Client Sample ID: 17563-B3S4 Client Project ID: 32-1-17563-001 1802 Lab Sample ID: 1130981003 Lab Project ID: 1130981	Knik Goose		Collection Received I Matrix: So Solids (%):	Date: 03/18/ [,] Date: 03/19/1 ill/Solid (dry w : 91.9	13 11:05 3 12:45 /elght)	
1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	and the address of the post of the second				ta Alexandra	
Results by Semivolatile Organic Fuels	Terret	riegera Metotri o'ni i Mitoleoni	eneral normality desire alternation management souther bounded	27 gagaa.mataalay merkelin larki bababaa maakaan ku	สามขางของสองรองที่ ๆ ครามว่าของสังกับได้สาม	in fear ailte an ann ann an Anna ailte an Anna ann an Anna an A
	Result Qual	1.00/01	DL.	Units	DF	Date Analyzed
	13.4 11	216	6.71	ma/Ka	1	04/01/13 13:30
Dieser Range Organics		Line				
Surrogates				0(04/04/49 49:20
5a Androstane	81.1	50-150		%	1	04/01/13 13:30
				Net Martin and a strategy of the strategy of t	tenenses maror de lasta 44 data 2001. Discorda	na bar dalar kala kala kangalar kang yang dan kangalar in 1944 kang tahun sa dalam sa dalam sa sa sa sa sa sa s
Batch Information Analytical Batch: XFC10848 Analytical Method: AK102 Analyst: EAB Analytical Date/Time: 04/01/13 13:30 Container ID: 1130981003-A		•	Prep Batch: XX Prep Method: S Prep Date/Time: Prep Initial Wt./V Prep Extract Vol	X28830 W3550C 03/29/13 11:2 /ol.: 30.165 g :: 1 mL	20	÷
	Beault Ougl		1	Units	DF	Date Analvzed
Parameter		216	671	ma/Ka	1	04/01/13 13:30
Residual Range Organics	10.4 U	21.0			•	
Surrogates n-Triacontane-d62	102	50-150		%	1	04/01/13 13:30
Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 13:30 Container ID: 1130981003-A			Prep Batch: XX Prep Method: S Prep Date/Time Prep Inittal Wt./ Prep Extract Vo	X28830 3W3550C : 03/29/13 11:: √ol.: 30.165 g l: 1 mL	20	· · · · · · · · · · · · · · · · · · ·
And and the second s	ny na amin'ny farita de Alfren, y ny na Andrewski fan Hallen Y.	ης μα το του αναλοποίο ματά τη του 100 μα.	ngga vy trov dastron der Miller, og og men den av Miller	LATERA. DATA AND A CLARENCE AND	ag ayan dalah — Anif (1921, 1949) ana mila	nny 19. ann 2014 anns an Frankrik airte an Friedrich an Anna Anna Anna Anna Anna Anna Anna
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Results of 17563-B3S4						1.000	n da na jezer da se da se de se de de se de s
Client Sample ID: 17563-B354 Client Project ID: 32-1-17563-001 1802 Lab Sample ID: 1130981003 Lab Project ID: 1130981	Knik G	oose		Collection I Received D Matrix: Soi Solids (%):	Date: 03/18/ Date: 03/19/1 Il/Solid (dry w 91.9	13 11:05 3 12:45 /eight)	
Results by Volatile Fuels		Jun	นิกรังได้เรียกไม่สายเป็นไหม่ เช่.6720 ต่องการ	Q 2027 2040 0 20 20 20 20 20 20 20 20 20 20 20 20	N déntel citat et antanta a tradaire dan 1990 a	ad ale side and defend to be reasoning on such	than between the standard standard and and share and standard standards.
Parameter Gasoline Range Organics	<u>Result</u> 1.41	<u>Qual</u> U	<u>LOQ/CL</u> 2.35	<u>DL</u> 0.704	<u>Units</u> mg/Kg	<u>DF</u> 1	<u>Date Analyzed</u> 03/27/13 15:18
urrog a tes 4-Bromofluorobenzene	99,4		50-150		%	1	03/27/13 15:18
Batch Information Analytical Batch: VFC11381 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 03/27/13 15:18 Confainer ID: 1130981003-B	7.289.289.97.47.439938	201481272749355495554955220		Prep Batch: VXX Prep Method: SW Prep Date/Time: (Prep initial Wt./Vo Prep Extract Vol:	24591 /5035A 03/18/13 11:0 I.: 71.301 g 30.7636 mL	ан алон негодолого со ч-н. Э	Olamow way wattak ka ka da ka
	*** *******	arrandon a bronda da la de	117600-AB 97 2100-24 Augus 1 - 24	ан ал станцију ул село ул село да село се село се село село село село сел	₩₩) =248081,0000 south fam. waarn vy	антант-тары	99 199 - 999 - 993 - 993 - 994
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Results of 17563-B3S4

Client Sample ID: **17563-B3S4** Client Project ID: **32-1-17563-001 1802 Knik Goose** Lab Sample ID: **1130981003** Lab Project ID: **1130981**

Collection Date: 03/18/13 11:05 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 91.9

Results by Volatile GC/MS	1963 Y - 1939 J - 200 ACONE 1. YOURS 124			elsens accuerte d'ést persona au partainere	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	eest or company sectors is in the back	<u>อาจจะนี้สาวสุดทุกัน สาวจะไหญ่ค่าได้และสิงครารสาวจะสาวสาวสาว</u>
	Result	Qual	LOQ/CL	DL	Units	DE	Date Analyzed
1 1 1 2 Totrachlara othana	14.6	1)	23.5	7.32	ua/Ka	1	03/28/13 00:40
1 1 1 Trichloroethane	14.6	Ŭ	23.5	7.32	ug/Kg	1 .	03/28/13 00:40
1 1 2 2 Tetrachloroethane	28.2	Ū	46.9	14.1	ug/Kg	1	03/28/13 00:40
1,1,2,2-Teladilloroothape	14.6	Ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1.1.Dichloroothane	14.6	Ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1,1-Dichloroethene	14.6	Ū	23.5	7.32	ua/Ka	1	03/28/13 00:40
1 1-Dichloropropene	14.6	Ű	23.5	7.32	ug/Kg	· 1	03/28/13 00:40
1, 1-Dichloropena	28.2	ŭ	46.9	. 14.1	ug/Kg	1	03/28/13 00:40
1.2.3 Trichloropropage	14.6	Ŭ	23.5	7.32	ug/Kg	1	03/28/13 00:40
1.2.4 Trichlorobenzene	12.7		23.5	7.32	ua/Ka	1	03/28/13 00:40
1.2.4 Trimothylbenzene	28.2	ů	46.9	14.1	ua/Ka	1	03/28/13 00:40
	58.2	Ŭ	93.9	29.1	ua/Ka	1	03/28/13 00:40
1.2 Dibromosthano	· 14.6	ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1.2 Dioblorobonzono	14.6	ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1.2 Dichloroothano	14.6	,ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1.2 Dichloropmpano	14.6	ŭ	23.5	7.32	ua/Ka	1	03/28/13 00:40
1,2-Dichoropropane	845		23.5	7.32	ua/Ka	1	03/28/13 00:40
	14.6	и. П	23.5	7.32	ua/Ka	1	03/28/13 00:40
1,3-Dichloropropaga	14.6	П.	23.5	7.32	ua/Ka	1	03/28/13 00:40
1,3-Dichloropropane	14.0	0	23.5	7.32	ug/Ka	1	03/28/13 00:40
	14.0	п	23.5	7.32	ug/Ka	1	03/28/13 00:40
2,2-Dichloropropane	14.0	ц Ц	235	73.2	ua/Ka	1	03/28/13 00:40
	140	ц Ц	235	.7.32	ua/Ka	1	03/28/13 00:40
	14.0	П	235	73.2	ua/Ka	1	03/28/13 00:40
2-Hexanone	140	П	235	7 32	ug/Ka	1	03/28/13 00:40
4-Chlorotoluene	14.0	1	23.5	7 32	ug/Ka	1	03/28/13 00:40
4-Isopropyitoluene	9.00	П	23.5	73.2	ug/Ka	1	03/28/13 00:40
4-Methyl-2-pentanone (MIBK)	140	П	235	3.66	ug/Kg	1.	03/28/13 00:40
Benzene	1.52	. U	11.7	7.32	ug/Kg	1	03/28/13 00:40
	14.0	П	23.5	7.32	ug/Ka	1	03/28/13 00:40
Bromochloromethane	14.0		23.5	7.32	ug/Kg ug/Kg	1	03/28/13 00:40
Bromodichloromethane	14.0	U 11	23.0	7.32	ug/Ka	1	03/28/13 00:40
Bromotorm	14.0	U 11	23.0	7.3Z	ug/Kg	1	03/28/13 00:40
Bromomethane	110		100	20.2	ug/Kg	1	03/28/13 00:40
Carbon disulfide	08.Z	. U	93.9	29.1	ug/Kg ug/Kg	1	03/28/13 00:40
Carbon tetrachloride	14.0		23.0	7.02	ug/Ng	1	03/28/13 00:40
Chlorobenzene	14.0		23.5	1.32	ughtg	4	03/28/13 00:40
Chloroethane	110		100	7.22	ug/Kg	1	03/28/13 00:40
Chloroform	14.6		∠0.0 03 E	7.02	ug/Ng	1	03/28/13 00:40
Chloromethane	14.0	U U	20.0 ' 00 F	7.02	ugnty	1	03/28/13 00:40
ciş-1,2-Dichloroethene	14.0		∠0.0 00 5	7,32 7,32	ugnty . ualKa	1	03/28/13 00:40
cis-1,3-Dichloropropene	14,6		20.0 00 f	1.32	uynty	1	03/28/13 00:40
Dibromochloromethane	14.6	U U	23,5	1.32	uy/ny	4	00/20/10 00,40

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Dichlorodifluoromethane

Dibromomethane

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23.5

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28.2

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14.1

ug/Kg

ug/Kg

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03/28/13 00:40

03/28/13 00:40

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Results of 17563-B3S4 Client Sample ID: 17563-B3S4 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981003 Lab Project ID: 1130981

Collection Date: 03/18/13 11:05 Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%): 91.9

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Results by Volatile GC/MS

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Parameter	<u>Result</u> Qual	<u>LOQ/CL</u>	DL	<u>Units</u>	DE	Date Analyzed
Ethylbenzene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Hexachlorobutadiene	28.2 U	46.9	14.1	uq/Ka	1	03/28/13 00:40
lsopropylbenzene (Çumene)	. 14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Methyl-t-butyl ether	58.2 U	93.9	29.1	ug/Kg	1	03/28/13 00:40
Methylene chloride	58.2 U	93.9	.29.1	ug/Kg	1	03/28/13 00:40
n-Butylbenzene	7.51 J	23.5	7.32	ug/Kg	1	03/28/13 00:40
n-Propylbenzene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Naphthalene	´28.2 U	46.9	14.1	ug/Kg	1	03/28/13 00:40
o-Xylene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
P & M -Xylene	28.2 U	46.9	14.1	ug/Kg	1	03/28/13 00:40
sec-Butylbenzene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Styrene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
tert-Butylbenzene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Tetrachloroethene	7.32 U	11.7	3,66	ug/Kg	1	03/28/13 00:40
Toluene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
trans-1,2-Dichloroethene	14.6 U	23.5	7.32	ug/Ka	1	03/28/13 00:40
trans-1,3-Dichloropropene	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Trichloroethene	7.32 U	11.7	3.66	ug/Kg	1	03/28/13 00:40
Trichlorofluoromethane	28.2 U	46.9	14.1	ug/Kg	1	03/28/13 00:40
Vinyl chloride	14.6 U	23.5	7.32	ug/Kg	1	03/28/13 00:40
Xylenes (total)	58.2 U -	93.9	29.1	ug/Kg	1 ·	03/28/13 00:40
Surrogates	•				. '	
1,2-Dichloroethane-D4	118	79-118		%	1	03/28/13 00:40
4-Bromofluorobenzene	124	67-138		%	1	03/28/13 00:40
Toluene-d8	117 *	85-115		%	1	03/28/13 00:40
	ndra Principa, an'ara-dahan amin'ny kaodim-	alış bağı, Ağı məstar şanşarı ku turanın di. Berkazı k	a Baandi aha taraan kara ca ah ahan da karabara baasa ka		ana sana ang ang ang ang ang ang ang ang ang	a graft 1966 a 197 a 1997 hann a thara ann ann ann ann ann ann ann ann ann
Analytical Batch: VMS13430			Prep Batch: VX	X24585		
Analytical Method: SW8260B			Prep Method: S	W5035A		
Analyst: HM		l	Prep Date/Time:	03/18/13 11:0	5	

Analytical Date/Time: 03/28/13 00:40 Container ID: 1130981003-B

Prep Initial Wt./Vol.: 71.301 g Prep Extract Vol: 30.7636 mL

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B4S3 Client Sample ID: 17563-B4S3 Client Sample ID: 17563-B4S3 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981004 Lab Project ID: 1130981 Results by Semivolatile Organic Fuels Parameter Parameter Diesel Range Organics	19-12 20-12 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 14-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 12-14 - 1 14-14 - 12-14 -
Results of 17563-B4S3 Client Sample ID: 17563-B4S3 Client Sample ID: 17563-B4S3 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981004 Lab Project ID: 1130981 Results by Semivolatile Organic Fuels Parameter Dissel Range Organics 12.7 U 20.5 6.37 mg/kg 1	
Results of 17563-B4S3 Collection Date: 03/18/13 11:54 Client Sample ID: 17563-B4S3 Collection Date: 03/18/13 11:54 Client Project ID: 32-1-17563-001 1802 Knik Goose Received Date: 03/19/13 12:45 Lab Sample ID: 1130981004 Matrix: Soil/Solid (dry weight) Lab Project ID: 1130981 Solids (%): 96.8 Results by Semivolatile Organic Fuels Result Qual Parameter Result Qual LOQ/CL DL Dlesel Range Organics 12.7 U 20.5 6.37 mg/Kg 1 04/0	
Client Sample ID: 17563-B4S3 Collection Date: 03/18/13 11:54 Client Project ID: 32-1-17563-001 1802 Knik Goose Received Date: 03/19/13 12:45 Lab Sample ID: 1130981004 Matrix: Soil/Solid (dry weight) Lab Project ID: 1130981 Solids (%): 96.8 Results by Semivolatile Organic Fuels Image: Collection Date: 03/18/13 11:54 Parameter Result Qual Diesel Range Organics 12.7 U 20.5 6.37 mg/Kg	and in contract of the second sec
Lab Project ID: 1130981 Solids (76). 90.0 Results by Semivolatile Organic Fuels Result Parameter Result Qual LOQ/CL DL Units DF Dat Diesel Range Organics 12.7 U 20.5 6.37 mg/Kg 1 04/0	ร้องแล้วกัง สารราชสาท 10 สตราร เสมกับการสากได้ 10 20 20 20
Results by Semivolatile Organic Fuels Parameter Result Qual LOQ/CL DL Units DF Dat Diesel Range Organics 12.7 U 20.5 6.37 mg/Kg 1 04/0	Mantisi ushlalar namun tangan na saga saga saga saga sa
Parameter Result Qual LOQ/CL DL Units DF Dat Diesel Range Organics 12.7 U 20.5 6.37 mg/Kg 1 04/4	
Diesel Range Organics 12.7 U 20.5 6.37 mg/Kg 1 04/	e Analyzed
	01/13 13:50
Surrogates5a Androstane90.450-150%104/4	01/13 13:50
	konskarterenskriverer fotoristerereterter for
Analytical Batch: XFC10848Prep Batch: XXX28830Analytical Batch: XFC10848Prep Method: SW3550CAnalytical Method: AK102Prep Date/Time: 03/29/13 11:20Analytical Date/Time: 04/01/13 13:50Prep Initial Wt./Vol.: 30.169 gContainer ID: 1130981004-APrep Extract Vol: 1 mL	
Parameter Result Qual LOQ/CL DL Units DF Date 1 04	te Analyzed
Residual Range Organics 12.7 U 20.5 6.57 mg/kg i 0.77	01/10/10:00
Surrogates n-Triacontane-d62 103 50-150 % 1 04/	01/13 13:50
	*
Batch Information Prep Batch: XXX28830 Analytical Batch: XFC10848 Prep Batch: XXX28830 Analytical Method: AK103 Prep Method: SW3550C Analytical Method: AK103 Prep Date/Time: 03/29/13 11:20 Analytical Date/Time: 04/01/13 13:50 Prep Initial Wt./Vol.: 30.169 g Container ID: 1130981004-A. Prep Extract Vol: 1 mL	
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Print Date: 04/03/2013 2:03:37PM

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Results of 17653-B453 Collection Date: 03/16/13 11:54 Client Project ID: 13008/1004 Callection Date: 03/16/13 11:54 Lab Sample ID: 113008/1004 Results 60/16/16/13 11:54 Lab Sample ID: 113008/1004 Baseline Range Organics Baseline Range Organics 1.12 J Results by Volatile Fuels mrgkp Baseline Range Organics 1.12 J Analytical Back: VFC11377 50-150 Analytical Back: VFC1377 50-150 Analytical Back: VFC1377 Prep Batch: VX/24589 Analytical Mackel SV80071 <td< th=""><th>565</th><th></th><th></th><th></th><th></th><th></th><th>•</th><th></th></td<>	565						•	
Results of 17863-B453 Collection Date: 03/14/13 11:54 Clent Project ID: 13008/1004 Collection Date: 03/14/13 11:54 Cab Sample ID: 113008/1004 Collection Date: 03/14/13 11:54 Bacamise ID: 113008/1004 Result Oual Date: ID: 113008/1004 Collection Date: 03/14/13 11:54 Bacamise ID: 113008/1004 Result Oual Date: Information 1 Arabytici Static VEC11377 Prop Batch: VXX24569 Analytici Static VEC1377 Prop Initint VXX24569 Ana	THERE AND A THE ADDRESS AND ADDRESS AND ADDRESS	naft faat okseen in eefnamisis						
Client Sample ID: 17563-2453 Client Project ID: 23-147583-601 1802 Knik Goose Lab Sample ID: 1130981 004 Bergied ID: 1130981 004 Client Project ID: 1130981 004 Client Salut Sa	Results of 17563-B4S3	AT TRANSPORT		General and an area and a static	inconscientedoristi dan periodori anna dan ber	**************************************	tilerinatiliterin sinservar encennaeroe	ar Relation manufacture a particular days days and the particular and the particular and the particular and the
Clink Project ID: 32-177563-001 1802 Knik Goose Lab Sample ID: 113009104 Solids (%): 96.8 Results by Volatile Fuels Results by Volatile Fuels Result Curation Results by Volatile Fuels Result Curation Results by Volatile Fuels Result Curation Results Curation Results by Volatile Fuels Result Curation Results Curatio	Client Sample ID: 17563-B4S3				Collection	Date: 03/18/	13 11:54	
Lab Sample ID: 1130981004 Matrix: Sell/Solid (r/y weight) Results by Volatile Fuels Solids (%): 96.8 Results by Volatile Fuels Iseant Qual Backin Rege Organics 1.12 J 2.94 0.862 mg/Kg 1 03/25/13 16:48 Backin Rege Organics 1.12 J 2.94 0.862 mg/Kg 1 03/25/13 16:48 Anarylaci Ambriton Prop Batch: VXX24589 morg Merind: SW5055A 1 03/25/13 16:48 Anarylaci Batch: VFC113/7 Prop Date/Time: 03/25/13 16:48 Prop Date/Time: 03/26/13 11:54 Prop Extinct Vol: 26.4886 mL Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Prop Extinct Vol: 26.4886 mL 03/25/13 16:48 Aydrine 16.3 U 28.4 9.17 up/Kg 1 03/25/13 16:48 Aydrine 16.3 U 28.4 9.17 up/Kg 1 03/25/13 16:48 Aydrine 16.3 U 29.4 9.17	Client Project ID: 32-1-17563-001 180	2 Knik Go	ose	•	Received	Date: 03/19/1	3 12:45	
LBD Project ID: Traditis by Volatile Fuels Solids (%): 96.8 Results by Volatile Fuels Image: Comparison of the compari	Lab Sample ID: 1130981004				Matrix: S	oil/Solid (dry w	reight)	· ,
Results by Volatile Fuels Date Analyzed Baschine Range Organics 1.12 J 2.94 0.882 mg/Kg 1 03/25/13 16:48 Baschine Range Organics 1.12 J 2.94 0.882 mg/Kg 1 03/25/13 16:48 Baschine Range Organics 97.7 50-150 % 1 03/25/13 16:48 Alch Information 97.7 50-150 % 1 03/25/13 16:48 Analytics INStruct VF C11377 Analytics INStruct VF C11377 Prep Date/n: VXX24589 Prep Date/n: VXX24589 Analytics INStruct VF C11377 Analytics INStruct VF C11377 Prep Date/n: VXX24589 Prep Date/n: VXX24589 Analytics INStruct VF C11377 Prep Date/n: VXX24589 Prep Date/n: VXX24589 Prep Date/n: VXX24589 Prezene 9.3.3 U 24.4 9.17 Vg/Kg 1 03/25/13 16:48 Struct Vel 9.13 U 254.4 9.17 Vg/Kg 1 03/25/13 16:48 Struct Vel 9.14 U 254.5 17.6 Ug/Kg 1 03/25/13 16:48 S	Lab Project ID: 1130981		-		Solids (%): 96.8	<u>.</u>	
Caramadur Description Description <thdescription< th=""> <thdescription< th=""> <</thdescription<></thdescription<>	Results by Volatile Fuels	ne Veliketa, stalen eta erako 1945aan - Veliketa	 			September of the state of the	n merzini men konstant val tat ka za vezina	
Gasoline Range Organics 1.12 J 2.94 0.862 mg/Kg 1 03/25/13 16:48 Irrogatos	Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	DL	Units	DF	Date Analyzed
Introduction 97.7 50-150 % 1 03/26/13 16:48 Analytical Batch: VFC11377 Prop Batch: VXX24569 Analytical Batch: VFC11377 Analytical Batch: VFC11377 Prop Batch: VXX24569 Prop Match SW305A Analytical Batch: VFC11377 Prop Date/Time: 03/26/13 16:48 Prop Date/Time: 03/26/13 16:48 Container ID: 1130981004-B Prop Match SW305A Prop Date/Time: 03/25/13 16:48 Prop Pateriation 18.3 U 29.4 9.17 ug/Kg 1 03/25/13 16:48 X-Merie 18.3 U 29.4 9.17 ug/Kg 1 03/25/13 16:48 X-Merie 18.3 U 29.4 9.17 ug/Kg 1 03/25/13 16:48 rogates 9.17 ug/Kg 1 03/25/13 16:48 Analytical Match: Athinformation . . .	Gasoline Range Organics	1.12	J	2.94	0.882	mg/Kg	1	03/25/13 16:48
Enronofluorobenzene 97.7 50-150 % 1 D3/25//3 18:48 Statch Information Analytical Patch: V/CX24599 Analytical Patch: V/CX24599 Prop Method: SW10//3 11:54 Analytical Patch: V/CX24591 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Analytical Patch: V/CX24591 Date/Time: 03/16//3 11:54 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Analytical Patch: V/CX24591 Date/Time: 03/16//3 11:54 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Container ID: 113038100-4.8 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 Sylance 9.42 U 14.7 4.71 ug/Kq 1 03/25//3 16:48 Analytical Patch: V/CX13/F0 Prop Method: SW10//3 11:54 Prop Method: SW10//3 11:54 03/25//3 16:48 03/25//3 16:48 8. M Nycknen 95.2 U 56.8 17.6 ug/Kq 1 03/25//3 16:48 regates A-Diffuorobenzene 95.2 72-119 % 1 03/25//3 16:48 Analytical Datch: V/C137/ Prop Method:	irrogates			1				
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Doromotor	D	0		5.			
	Result	Qual			Units	DF	Date Analyzed
Gasoline Range Organics	1.55	U	2,59	0.777	mg/Kg	1.	03/25/13 17:07
Surrogates				•		•	· ·
4-Bromofluorobenzene	101		50-150		%	1	03/25/13 17:07
an a							
Batch Information	riechetildarfe wiar ei zar brezare	unio de constante da constante d	ra dan san tanan karan karang	a a se a ser a se a se a se a se a se a	en - Kanal Maniel Canto all'esta de la constata en socialmente de parto despecto	an të ngja shkik dan si e ti kalinda	C 1/2014 MERCE TREBUTING AND THE PROPERTY OF T
Analytical Batch: VFC11377				Prep Batch: V	/XX24589		
Analytical Method: AK101				Prep Method:	SW5035A		
Analyst: ST				Prep Date/Tim	ie: 03/18/13 11:5	9	
Analytical Date/Time: 03/25/13 17:07				Prep Initial Wt.	Nol.: 54.356 g		
Container ID. 1130981005-B				Prep Extract V	ol: 27.0826 mL		
а намания редпериятали сограни и на с константации съргализации на состана состана состана с осображение соста	iviliainainparama pap ay na pa	ara a stu ara Do co so ta	**************************************	(A properties) any operation of all dispersions (). Press	lata . Brun Bren ya wanyere pupakare pu kuba ka kubakaka -	Bartlana ara pikan yang seti dan mang	На после на после продократ "А до Ми, "С Разобла се област на после на се одна пос
Parameter	<u>Result</u>	Qual	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Date Analyzed
Benzene	8.28	U	13.0	4.14	ug/Kg	1	03/25/13 17:07
Ethylbenzene	16.2	U	25.9	8.08	ug/Kg	1	03/25/13 17:07
o-Xylene	16. 2	U	25.9	8.08	ug/Kg	1	03/25/13 17:07
P & M -Aylene Toluono	31.0	U	51.8	15.5	ug/Kg	1 .	03/25/13 17:07
Tomene	16.2	υ.	25.9	8.08	ug/Kg	1	03/25/13 17:07
Surrogates						•	•
1,4-Difluorobenzene	96.1		72-119		%	1	03/25/13 17:07
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Batch Information	ang ng politika sanatangka sanananan di	MARINE RECOMPLETE METAL	-1. 	(Crusters) Markets III on Science on Spinor Builder (1955) Berri -	ik dasi 4.0 mma manga na kasa n	allered or general and and and appropriate of the second second second second second second second second second	n an fear tha an
Analytical Batch: VFC11377				Prep Batch: VX	XX24589	· .	
Analytical Method: SW8021B				Prep Method:	SW5035A		
Analyst: ST Analyst: Date (Times: 00/05/40.47-07				Prep Date/Time	e: 03/18/13 11:59	I	
Container ID: 1130981005-B				Prep Initial Wt./	Vol.: 54.356 g		
·		•			. 21.0020 ML		
ne a sa s	11.7 M II. Stell / and Shi M and and Shi. Ju	4		ar Main 21 Sea Al Land Shift and Shift Includes and Alberta and Alberta	MAL B-184 - SASANG ÁYBALAN MANYARAN AYAYA "SAKA DARAN KATA	Mandad antibi rafa sayan ayang	lan Baharah Malanah Karang Janaran ng ng mga yang ng kang pang pang pang pang pang pang pang p
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THIL Date: 04/03/2013 2:03:37PM			-				
SGS North America Inc. 200	West Pot	ter Drive	Anchorage	e, AK 95518			
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- Results of 17563-B5S1
- Client Sample ID: 17563-B5S1 Client Project ID: 32-1-17563-001 1802 Knik Goose
- Lab Sample ID: 1130981006

Lab Project ID: 1130981

Collection Date: 03/18/13 12:29 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 97.3

Darameter	Result Qual	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Date Analyzed
Arponia	3.15	0.990	0.307	mg/Kg	10	03/27/13 18:17
Barlum	67.5	0,297	0.0931	mg/Kg	10	03/27/13 18:17
Cadmium	0.248	0.198	0.0614	mg/Kg	10	03/27/13 18:17
Chromium	. 18.4	0.396	0.119	mg/Kg	10	03/27/13 18:17
Lead	2,86	0.198	0,0614	mg/Kg	10	03/27/13 18:17
Mercury	0.0377 J	0.0396	0.0119	mg/Kg	10	03/27/13 18:17
Səlenium	0.167 J	0.495	0.149	mg/Kg	10	03/27/13 18:17
Silver	0.0452 J	0,0990	0.0307	mg/Kg	10	03/27/13 18:17
·						

Batch Information

Analytical Batch: MMS7916 Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18:17 Container ID: 1130981006-A

Prep Batch: MXX26373 Prep Method: SW3050B Prep Date/Time: 03/27/13 13:00 Prep Initial Wt./Vol.: 1.038 g Prep Extract Vol: 50 mL

Print Date: 04/03/2013 2:03:37PM

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	-"Chattan Afrika 1.7 sawaay	*: 15000 1948: 2) 1/2					
Client Sample ID: 17563-B5S1 Client Project ID: 32-1-17563-001 180 Lab Sample ID: 1130981006 Lab Project ID: 1130981	2 Knik G	oose	ФК-финебалалык төсүнөдөл одолоо	Collectior Received Matrix: S Solids (%	n Date: 03/18 Date: 03/19/ ioil/Solid (dry 1): 97.3	/13 12:29 13 12:45 weight)	
Results by Semivolatile Organic Fuel	5 5		an an ion sign and a state of the state of the	72000000) CF 470000 60000000000000000000000000000000	entrik formanoje je na do kaj sa se		18-00.0011-01-00-0011-01-01-01-01-01-01-01-01-
<u>Parameter</u> Diesel Range Organics	<u>Result</u> 12.6	<u>Qual</u> U	<u>LOQ/CL</u> 20,4	<u>DL</u> 6.31	<u>Units</u> mg/Kg	<u>DF</u> 1	<u>Date Analyzed</u> 04/01/13 14:32
urrogates 5a Androstane	92.2	•	50150		%	1	04/01/13 14:32
Batch Information Analytical Batch: XFC10848 Analytical Method: AK102 Analyst: EAB Analytical Date/Time: 04/01/13 14:32 Container ID: 1130981006-A	Heffel disclosure projects o	5-80 Hitsbarrangeroa	псилация и области на на посилация на поднати на на	Prep Batch: XX Prep Method: S Prep Date/Time: Prep Initial Wt A Prep Extract Vol	X28830 W3550C : 03/29/13 11:2 /ol.: 30.276 g : 1 mL	**************************************	an ossanyn fer Brower i staar on oppender fan staar
<u>Parameter</u> Residual Range Organics	<u>Result</u> 12.6	<u>Qual</u> U	<u>LOQ/CL</u> 20.4	<u>DL</u> 6.31	<u>Units</u> ma/Ka	<u>DF</u> 1	Date Analyzed
Irrógates I-Triacontane-d62	100		50-150		. %	1	04/01/13 14:32
Satch Information Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 14:32 Container ID: 1130981006-A	9 260288.000 678 (year (10 ang)	2005-64 Mar 7949 C	alan kana kana kana kana kana kana k	Prep Batch: XX> Prep Method: S\ Prep Date/Time: Prep Initial Wt./Vi Prep Extract Vol:	K288 3 0 W3550C 03/29/13 11:20 ol.: 30.276 g 1 mL	ла: эллинд ч. сончолог осо на О	nanna 20 anna 19 anna 1
αν τη δηληγό (7.20 μ. 196 από πλητική τη 1970) που τη	82,2045;586671.00473.271462;549799;5	₩9.4.8.8,4.4.8,4.0,6.9,9,4.49,4.49,4.49	idra Martin Grander, da y in del 1999 (1993)	1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 - 1999 -	an - Ann a Chaill achainn an - Laranna a sh	Allen werden eine state eine Annen eine state	
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Client Sample ID: 17563-B5S1 Client Project ID: 32-1-17563-001 180 Lab Sample ID: 1130981006 Lab Project ID: 1130981	oose		Collection Received Matrix: S Solids (%	Date: 03/18/ Date: 03/19/1 oll/Solid (dry w): 97.3			
	THE WORLD CONTRACT	and the second of the second o			annan a ann an an an ann an ann an an		
Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Date Analvzed
Gasoline Range Organics	1.31	U	2.18	0.653	mg/Kg	1	03/25/13 17:25
Surrogates							·
4-Bromofluorobenzene	103		50-150		%	1	03/25/18 17:25
Batch Information	XII YAKIKI MARALAZIK	(12.0%) 200512° 20.0%)	K fanne i therefore en aller spigter før	ELEVISION - FAIRE DE L'AND DE LEVIS DE LEVIS	Alcherus (Padjas : Kinos II. substyle ar 1967 - 51		ue n ou server and and and a server of the server and the server server and the server of the server o
Analytical Batch: VFC11377 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 03/25/13 17:25 Container ID: 1130981006-B		•	• .	Prep Batch: VX Prep Method: S Prep Date/Time Prep Initial Wt./N Prep Extract Vo	X24589 SW5035A : 03/18/13 12:2 /ol.: 63 g I; 26.7021 mL ⁻	9	
Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	. DT	<u>Units</u>	<u>DF</u>	Date Analyzed
Benzene	6.96	U	. 10.9	3,48	ug/Kg	1	03/25/13 17:25
Ethylbenzene	13.6	U	21.8	6.80	ug/Kg	1	03/25/13 17:25
o-Xylene	13.6	U	21.8	6.80	ug/Kg	1	03/25/13 17:25
P & M -Xylene	26.2	U	43.6	13.1	ug/Kg	1	03/25/13 17:25
Toluene	13,6	U	21.8	6,80	ug/Kg	1	03/25/13 17:25
Surrogates							
1,4-Difluorobenzene	95.2		7 2-119		%	1	03/25/13 17:25
Batch Information Analytical Batch: VFC11377 Analytical Method: SW8021B Analyst: ST Analytical Date/Time: 03/25/13 17:25 Container ID: 1130981006-B		2,000,630,000,000,000,000,000,000,000,000	valitetet Annotationalassan van	Prep Batch: VX Prep Method: S Prep Date/Time Prep Initial Wt.A Prep Extract Vol	X24589 W5035A : 03/18/13 12:2 /ol.: 63 g : 26.7021 mL	9	WYLLIA, AN AN THE THE AND THE AND THE AND THE
MI-MICHANGE ALBERTAN, ALBERTREACH IS AND AN	, . ,		418 - 763 (Sachda) ad - 11 - 9 ad 1974	P- V V (1),099),099(7)/004(10)	er Perg II i 10 Situat (hereithant di averanga	1944 - C. & Tennik, 44 (1784)	n nor-an ann anns ann anns anns anns anns ann

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Client Sample ID: 17563-B6S4 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981007 Lab Project ID: 1130981

INTERNAL CONTRACTOR OF A DESCRIPTION OF A D

Collection Date: 03/18/13 13:30 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 96.5

Results by Metals by ICP/MS

Parameter	<u>Result</u> Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
Arsenic	5.18	0.925	0.287	mg/Kg	10	03/27/13 18:24
Barlum	. 58.8	0.278	0,0870	mg/Kg	.10	03/27/13 18:24
Cadmium	0.272	0.185	0.0574	mg/Kg	10	03/27/13 18:24
Chromium	25.1	0.370	0.111	· mg/Kg	10	03/27/13 18:24
Lead	3.04	0.185	0,0574	mg/Kg	10	03/27/13 18:24
Mercury	0.0446	0.0370	0.0111	mg/Kg	10	03/27/13 18:24
Selenium	0.278 U	0.463	0.139	mg/Kg	10	03/27/13 18:24
Silver	0.0571 J	0.0925	0.0287	mg/Kg	10	03/27/13 18:24
Batch Information Analytical Batch: MMS7916	ava 2011 (102) (423) (423) (428) (428) (439) (439) (439) (439) (439)	angganaan sa waxa na daha P	Prep Batch: MX	x26373	1939-W, 439-M & SADOUT-W-	รส-จาติมะเภษสากณาสาช สถีเวทิสเหติจากสุดสุดรูปและจา

Analytical Method: SW6020 Analyst: ACF Analytical Date/Time: 03/27/13 18:24 Container ID: 1130981007-A

Prep Method: SW3050B Prep Date/Time: 03/27/13 13:00 Prep Initial Wt./Vol.: 1.12 g Prep Extract Vol: 50 mL

Print Date: 04/03/2013 2:03:37PM

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Client Sample ID: 17563-B6S4 Client Project ID: 32-1-17563-001 180 Lab Sample ID: 1130981007 Lab Project ID: 1130981	esults of 17563-B6S4 lient Sample ID: 17563-B6S4 lient Project ID: 32-1-17563-001 1802 Knik Go ab Sample ID: 1130981007 ab Project ID: 1130981 esults by Semivolatile Organic Fuels arameter Result esel Range Organics 12.8 rogates 96.1 Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Batch: XFC10848 Analytical Method: AK102 Analytical Date/Time: 04/01/13 14:52 Container ID: 1130981007-A rameter Result esidual Range Organics 12.8 rogates Triacontane-d62 101	00Se					
	i Kanganetart	a served	nia ana amin'ny kaodim-paositra dia kaodim-paositra dia kaodim-paositra dia kaodim-paositra dia kaodim-paositra	en hinninderer in dersenden starten.	LONGEN PROMI MENSELENSE ANSTRALENSE ANSTRALEN	ooninaa kaana k	inn i an dimetera an interna de de anterna de de anterna de la companya de la companya de la companya de la com
Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Date Analyzed
Diesel Range Organics	. 12.8	U	20.7	6.42	mg/Kg	1	04/01/13 14:52
Surrogates							
5a Androstane	96.1	•	50-150		%	1	04/01/13 14:52
	* *	Nohalakot Mariadakot ratris 4	, ta - standstartes (paradas) - arras	NICENTIC LECENSEL AT SCREETS FROM CLEVE ALL CLEVE A	al hartikle selve livre songar en processer først son først for som	ý vzalej i kratový platický skoletova (n za za mana da za
Analytical Batch: XFC10848 Analytical Method: AK102 Analyst: EAB Analytical Date/Time: 04/01/13 14:52 Container ID: 1130981007-A		•		Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 3W3550C : 03/29/13 11:2 Vol.: 30,029 g I: 1 mL	0	н
Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
Residual Range Organics	12.8	U	20.7	6.42	mg/Kg	1	04/01/13 14:52
Surrogates		•					
n-Triacontane-d62	101		50-150		%	1	04/01/13 14:52
Batch Information	erozaniagogeneraj kura-	av samskeiset riteiter	en fert «Connect Co rnelle Sonale Connect	ang tanggan ang sang sang sang sang sang sang	a manana mana mana m	an an an ann an ann an an ann an ann an	uning of the heat of the second states a straighted where the second states of the second states of the second
Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 14:52 Container ID: 1130981007-A				Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./N Prep Extract Vo	X28830 3W3550C : 03/29/13 11:2 Vol.: 30.029 g I: 1 mL	0	

Print Date: 04/03/2013 2:03:37PM

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		A NUMBER		_	Nalla – 41 – 11	 		2 42.00		:	
Client Sample ID: 17563-B6S4	12-11- ~	· ·		. E	voliection	Defo	9: 03/18/1 • 02/10/1	3 13:30 3 12:45			
Client Project ID: 32-1-17563-001 1802	Knik Go	ose			latrix S	oil/Sc	alid (drv w	eiaht)		•	
Lap Sample ID: 1130981007				S	olids (%): 96	5.5 5.5	Jiginy			
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Results by Volatile Fuels		2003 (1960) 2003 (1960)	QUARTER CONTRACTOR CONTRACTORS	artin aini (tirin dalah		nonsembelsnik		ngi okaminir datut atot da	10805180113A.KAN43743	na an fin inizi ana ann an tao ann an taona an t	ydaita
Parameter	Result	Qual	LOQ/CL	Ľ	L		Units	DF		Date Analyzed	
Gasoline Rénge Organics	0.786		1.96	0	.589	•	ma/Ka	1		03/27/13 15:37	
		-					0 0			. •	
Surrogates	107		50 450				0/	4 ·		02/07/42 45:27	
4-Bromotluorobenzene	107		50-150				70	1		00/21/10 10:01	
Batch Information	(4) beauting under state of the second state	and we shall be a state of the	nareau anes: vir ce st Million (* 1965	Readed to Automatica	contenting over the second	. PS	g men vanieren hale der Schwitz	en a fra	ester sventanskassisk	LE TO ME MARTINE A VIETNA VY ZMRATNA V LEDNA V MEDA VIETNA V MEDA VIETNA V	31 76 2
				Drop E	latabe V/V	/V946	:04				
Analytical Batch: VFC11381 Analytical Method: AK101				Prep	Aethod: S	SW50	35A				
Analyst: ST				Prep D	Date/Time	: 03/	18/13 13:30	2			
Analytical Date/Time: 03/27/13 15:37				Prep I	nitial Wt.A	Vol.:	72.836 g				
Container ID: 1130981007-B			•	Prep E	xtract vo	at: 27.	.5686 mL			·	
and here is the same war when a downergy on which is the same and an induction is same allow a solution is an		a a	an na ann an sann an barran da barran dhai	6193615 - ¹ 6 4 27046489	n ng pysamen na pana han 6 sia ah		a version and the desired second s			ĸĸĸĸ₩₽₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩₩	/ -6-
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Print Date: 04/03/2015 2:03:37PM	•		<u>.</u>								
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Results of 17563-B6S4

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Client Sample ID: 17563-B6S4 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981007 Lab Project ID: 1130981

Collection Date: 03/18/13 13:30 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%): 96.5

Results by Volatile GC/MS				สารร้อมการโรงสารร้องส			an a
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<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>D1.</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
1,1,1,2-Tetrachloroethane	12.2	U	. 19.6	6.12	ug/Kg	⁺ 1	03/28/13 01:08
1,1,1-Trichloroethane	12.2	U	19.6	6,12	ug/Kg	1	03/28/13 01:08
1,1,2,2-Tetrachloroethane	23.6	U	39.2	11.8	ug/Kg	1	03/28/13 01:08
1,1,2-Trichloroethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/ 1 3 01:08
1,1-Dichloroethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,1-Dichloroethene	12.2	Ų	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,1-Dichloropropene	12.2	U	19,6	6.12	ug/Kg	1	03/28/13 01:08
1,2,3-Trichlorobenzene	23,6	U	39.2	11.8	ug/Kg	1	03/28/13 01:08
1,2,3-Trichloropropane	12.2	U	19.6	6.12	ug/Kg	- 1	03/28/13 01:08
1,2,4-Trichlorobenzene	12.2	U	19.6	6.12	ug/Kg	1.	03/28/13 01:08
1,2,4-Trimethylbenzene	23.6	U	39.2	11.8	ug/Kg	1	03/28/13 01:08
1,2-Dibromo-3-chloropropane	48.6	U	78.5	24.3	ug/Kg	1	03/28/13 01:08
1,2-Dibromoethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,2-Dichlorobenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,2-Dichloroethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,2-Dichloropropane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,3,5-Trimethylbenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,3-Dichlorobenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,3-Dichloropropane	12,2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
1,4-Dichlorobenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
2,2-Dichloropropane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
2-Butanone (MEK)	122	<u>U</u>	196	61.2	ug/Kg	1	03/28/13 01:08
2-Chlorotoluene	12,2	U	19.6	6:12	ug/Kg	1	03/28/13 01:08
2-Hexanone	122	U	196	61.2	ug/Kg	1	03/28/13 01:08
4-Chlorotoluene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
4-Isopropyltoluene	7.85	J	19.6	6.12	ug/Kg	<u>1</u>	03/28/13 01:08
4-Methyl-2-pentanone (MIBK)	122	U	196	61.2	ug/Kg	1	03/28/13 01:08
Benzene	6.28	J	9.81	3.06	ug/Kg	1	03/28/13 01:08
Bromobenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Bromochloromethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Bromodichloromethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Bromoform	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Bromomethane	97.2	U	157	48.6	ug/Kg	1	03/28/13 01:08
Carbon disuifide	48.6	U	78.5	24.3	ug/Kg	1	03/28/13 01:08
Carbon tetrachloride	12.2	υ.	19.6	6.12	ug/Kg	1	03/28/13 01:08
Chlorobenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Chloroethane	97.2	U	157	-48,6	ug/Kg	1	03/28/13 01:08
Chloroform	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Chloromethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
cis-1,2-Dichloroethene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
cis-1,3-Dichloropropene	12.2	U.	19.6	6.12	ug/Kg	1	03/28/13 01:08
Dibromochloromethane	12.2	U·	19.6	6.12	ug/Kg	1	03/28/13 01:08
Dibromomethane	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08
Dichlorodifluoromethane	23.6	U	39.2 ·	11.8	ug/Kg	1	03/28/13 01:08

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Results of 17563-B6S4

Client Sample ID: 17563-B6S4 Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981007 Lab Project ID: 1130981

Collection Date: 03/18/13 13:30 Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%): 96.5

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Results by Volatile GC/MS

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Parameter_	<u>Result</u>	Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed		
Ethylbenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Hexachlorobutadiene	23.6	U	39.2	11.8	ug/Kg	1	03/28/13 01:08		
Isopropylbenzene (Cumene)	12.2	υ	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Methyl-t-butyl ether	48.6	υ	78.5	24.3	ug/Kg	1	03/28/13 01:08		
Methylene chloride	, 48.6	U	78.5	24.3	ug/Kg	1	03/28/13 01:08		
n-Butylbenzene	12.2	U	19.6	6,12	ug/Kg	1 .	03/28/13 01:08		
n-Propylbenzene	12.2	U	19.6	6.12	ug/Kg	1 ·	03/28/13 01:08		
Naphthalene	23.6	U	39.2	11.8	ug/Kg	1.	03/28/13 01:08		
o-Xylene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
P & M -Xylene	23.6	U,	39.2	11.8	ug/Kg	1 ·	03/28/13 01:08		
sec-Butylbenzene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Styrene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
tert-Butylbenzene	12.2	ບ່	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Tetrachloroethene	6,12	U	9.81	3.06	ug/Kg	1	03/28/13 01:08		
Toluene	12.2	U	19.6	6.12	ug/Kg	1 ·	03/28/13 01:08		
trans-1,2-Dichloroethene	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
trans-1,3-Dichloropropene	12.2	υ	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Trichloroethene	6.12	U	9.81	3.06	ug/Kg	1	03/28/13 01:08		
Trichlorofluoromethane	23.6	U	39.2	11.8	ug/Kg	. 1	03/28/13 01:08		
Vinyi chloride	12.2	U	19.6	6.12	ug/Kg	1	03/28/13 01:08		
Xylenes (total)	48.6	U	78.5	24.3	ug/Kg	1	03/28/13 01:08		
Surrogates	•				•				
1,2-Dichloroethane-D4	99.4		79-118		%	1	03/28/13 01:08		
4-Bromofluorobenzene	102		67-138		%	1	03/28/13 01:08		
Toluene-d8	114		85-115		%	1	. 03/28/13 01:08		
Batch Information	Definition of the second second	censimbarita esp	n an	n Mara warrelandar fan fan de Marane za de Maranes	and the subscript of th	n Berrige and Berrich and Ber	n. 1973 bene wite wieder sowert einen eine bestellter bestellter bei die bestellter bestellter bestellter beste Bestellter		
Anglutical Batch: VMS13420			Ĺ	ron Batch: \/\	(Y24585				
Analytical Method: SW8260B			г С	ren Method: S	3W/5035A				
Analyst HM			F	ren Date/Time	c 03/18/13 13:3	0			
Analysi. Hivi Prep Date/Time. 05/16/15 15:50									

Analytical Date/Time: 03/28/13 01:08 Container ID: 1130981007-B

Prep Initial Wt./Vol.: 72.836 g Prep Extract Vol: 27.5686 mL

Print Date: 04/03/2013 2:03:37PM

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Dooulto of 17563 B696		Breen	(%)-W/ COLOR (1997)	ne segunitari mandari manunda kontakti na sa	a la segura para sana sa	a na na prantina na ana ang ang ang ang ang ang ang an	alman and any different die the construction was subjected in the second of the second state of the second state
	FOLDIN	miser sel		Callestia	Date: 02/45	13 12.10	
Client Sample ID: 17563-B6S6 Client Project ID: 32-1-17563-001 1802	Knik Go	ose		Received [Date: 03/18 Date: 03/19	/13 12:45	
Lab Sample ID: 1130981008 Lab Project ID: 1130981	ana an Marina ang			Matrix: So Solids (%)	89.8 89.8	weignt)	
a second	* 16. milana (19. 19. 19. 19. 19. 19. 19. 19. 19. 19.				· .		
Results by Semivolatile Organic Fuels		CATER MAY A	ecended eccloserse primeroadjets by o	************	22.00.000.000.00000.00000.000000000000	127 (1991 (Participation of the Constant)	รรัฐสาวและสารที่สุดประสะกรรรษที่สารสารที่สุดสาร สารรับสาร เสราะและ เป็นสารระบบรายสารที่สุดสารสารที่
Parameter	<u>Rəsult</u>	Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	DF	Date Analyzed
Diesel Range Organics	1 3 .8	U	22.3	6.90	mg/Kg	1	04/01/13 15:12
Surrogates							
5a Androstane	92.1		50-150		%	1	04/01/13 15:12
Batch Information	alla Materiae eskal (da Mara	Harrisonframilians iza	INTERNATION OF A	I Degeneration de l'Indels Particle aussi de l'Angele de l'Angele de la companya de la companya de la companya I de generation de la companya de la	a de la compacta de l La compacta de la comp	en selantin land et metalin er hit filme	ns normal month for a second of standing of the provided standard is set and the second second second second s
Analytical Batch: XFC10848				Prep Batch: XX	X28830		
Analytical Method: AK102			÷	Prep Date/Time:	03/29/13 11	:20	
Analytical Date/Time: 04/01/13 15:12	•			Prep Initial Wt.A	/ol.: 30.037 g	ļ	
Container ID: 1130981008-A				Prep Extract Vol	: 1 mL,		
Parameter	Result	Qual	LOQ/CL	DL	<u>Units</u>	DF	Date Analyzed
Residual Range Organics	13.8	Ū	22.3	6.90	mg/Kg	1	04/01/13 15:12
Surrogates							
n-Triacontane-d62	100		50-150		% ·	1	04/01/13 15:12
	alist for well to a state as a second	. (1) 10.11.013.0017.001001	e malanina de de la fancesa este	ment de Liferende de bonde operature de la company	ana at water we are been and	anaana. Afil ahaan tarahaa	. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199 Internet internet inte
Analytical Batch: XFC10848				Prep Batch: XX	X28830		
Analytical Method: AK103				Prep Method: S	W3550C	1.20	
Analyst: EAB Analytical Date/Time: 04/01/13 15:12				Prep Initial Wt.A	/ol.: 30.037	g	
Container ID: 1130981008-A				Prep Extract Vo	l: 1 mL		•
SARAAR AMARAMANYANYANYANYANYANYANYANYANYANYANYANYANYA	13 ILEN-1877 STATES	ana-manananan or Beraera	Hange offensiet water Armenia de	giyayan magala di Kilogi K	ann an	nyez a (pydłychodni zastary dokrawy obsorati obsorati	
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			an a	na odravska povrte u Statem Domocra	Martu R. Martin Martin Martin & Santo	ng an age age and a based on some the set	
Print Date: 04/03/2013 2:03:37PM	alaa, fadaya ka she	anna de Mañatanas		Land Contract Contract NY 227 (CONSIGNED TO STOLE) TO ST			
SGS North America Inc.	0 West F	otter Driv	ve Anchora	ge, AK 95518	n		

SGS		-				·	
Results of 17563-B686 Client Sample ID: 17563-B686 Client Project ID: 32-1-17563-001 1802 Lab Sample ID: 1130981008 Lab Project ID: 1130981	! Knik G	oose	uhitentettettaan (terralasi	Collection Received I Matrix: So Solids (%):	Date: 03/18/ Date: 03/19/ il/Solid (dry v : 89.8	(13 13:49 13 12:45 veight)	nga nen na san san san san san san san san san
Results by Volatile Fuels	area and an and an		and the second secon	an a	and de la companya de	1555.2012 เริ่าร่อ เขาเปราต่างสามันจุบุจ	กรรรร สิงธรรรษรรรรษรรรษรรรมสายสายสายสายสายสายสายสาย
<u>Parameter</u> Gasoline Range Organics	Result 1.01	<u>Qual</u> J	<u>LOQ/CL</u> 2,93	<u>DL</u> 0.880	<u>Units</u> ' mg/Kg	<u>DF</u> 1	<u>Date Analyzed</u> 03/25/13 18:39
Surrogates 4-Bromofluorobenzene	103		50-150		%	1	03/25/13 18:39
Batch Information Analytical Batch: VFC11377 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 03/25/13 18:39 Container ID: 1130981008-B	27.7867983,76699414994 1406		"N-120101444134120488847000	Prep Batch: VXX Prep Method: SV Prep Date/Time: Prep Initial Wt./Vo Prep Extract Vol:	(24589 V5035A 03/18/13 13:4 ol.: 58.988 g 31.0454 mL	9 .	**************************************
Parameter Benzene Ethylbenzene o-Xylene P & M -Xylene Toluene	Result 9.38 18.3 18.3 35.2 18.3	Qual U U U U U	LOQ/CL 14.7 29.3 29.3 58.6 29.3	<u>DL</u> 4.69 9.15 9.15 17.6 9.45	<u>Units</u> ug/Kg ug/Kg ug/Kg ug/Kg	<u>DF</u> 1 1 1 1	Date Analyzed 03/25/13 18:39 03/25/13 18:39 03/25/13 18:39 03/25/13 18:39
Surrogates 1,4-Difluorobenzene	96.6	. 0	72-119	. 9.10	ид/кд %	1	03/25/13 18:39
Batch Information Analytical Batch: VFC11377 Analytical Method: SW8021B Analyst: ST Analytical Date/Time: 03/25/13 18:39 Container ID: 1130981008-B	ullitatiku addasşalışını	BRIK MARKAR	i Brithathan Antonina i Sterr	Prep Batch: VXX: Prep Method: SW Prep Date/Time: Prep Initial Wt./Vo Prep Extract Vol:	24589 /5035A 03/18/13 13:44 1.: 58.988 g 31.0454 mL	an anan a na	gynonych addinach falsa felan y canaca
δηματική και τη πορηγούτε ποτό το στοποίο που φύρουν το το το στοδομού και από το του το το το το στο συναργο Τ	1760-1880-0348 k.™Mariqapa	a na	ма. Э авиа / н Кал Укани Кали		1.000000000000000000000000000000000000	anisa iya iya da saya da saya	
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Print Date: 04/03/2013 2:03:37PM [200] SGS North America Inc. [200]	West Pol 7.562.234	ter Drive 13 f 907.5	Anchorage	, AK 95518 www.us.sgs.com	9793967 <i>64.5369</i> 47097415539	v.a.v.), v.a. in Antoine alternation observations	ZENDORENA. (RINA) A STALAMARIA (UZZOR)

Member of SGS Group

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-Results of 17563-B7S4	NIN SALANCE	MARSER AND	a na zist di si 1990 na	an a da a chuir an	andaran († 1997) - Belevenet anna anna anna an dùthair († 1944)	and a second a second secon	аран андар жана калан калан калан калан жана калан жана калан жана жана жана калан калан калан калан калан кала
Client Sample ID: 17563-B7S4 Client Project ID: 32-1-17563-001 1802 Lab Sample ID: 1130981009 Lab Project ID: 1130981	Knik Go)OSE		Collection Received I Matrix: So Solids (%)	Date: 03/18/ Date: 03/19/1 il/Solid (dry w : 90.2	13 15:00 3 12:45 /eight)	
NU VARIAN MATANIANI ANTANI	aralizatzari 10 94 54WING	urmen ig					
Results by Semivolatile Organic Fuels		energiane e Electronistatione energiane	รรับแสรงหน่าร่างเองฟิต์สสามาจาก	an 1 - A	an a	entressenten en e	an na shekari na mara na mana ka ni na shekara na
Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	DL	<u>Units</u>	DE	Date Analyzed
Diesel Range Organics	13.7	U	22.2	6.87	mg/Kg	1	04/01/13 15:33
Surrogates							•
5a Androstane	89.9		50-150	-	%	1	04/01/13 15:33
Batch Information	an ann an an Anna an Anna	a 19 million an	anan Doministruktus savet tili savende	er og som	NAMES AND AND ADDRESS OF THE OWNER OF THE OWNE	services and the second state	na nimeta en la sur que contra contra por contra contra contra contra contra contra contra contra contra contra •
Analytical Batch: XFC10848 Analytical Method: AK102 Analyst: EAB Analytical Date/Time: 04/01/13 15:33 Container ID: 1130981009-A				Prep Batch: XX Prep Method: S Prep Date/Time: Prep initial Wt.A Prep Extract Vol	X28830 W3550C ∵03/29/13 11:: /ol.:- 30.012 g I: 1 mL	20	
Parameter	Result	Qual	LOQ/CL	. DF	<u>Units</u>	. <u>DF</u>	Date Analyzed
Resídual Range Organics	13.7	U	22.2	6.87	mg/Kg	1	04/01/13 15:33
Surrogates			. •				
n-Triacontane-d62	96.4		50-150	•	%	1	04/01/13 15:33
Batch Information Analytical Batch: XFC10848 Analytical Method: AK103 Analyst: EAB Analytical Date/Time: 04/01/13 15:33 Container ID: 1130981009-A	gamma mating to get a constraint of the second second	ngay walang mangang man		Prep Batch: XX Prep Method: S Prep Date/Time Prep Initial Wt./ Prep Extract Vo	(X28830 6W3550C : 03/29/13 11: Vol.: 30.012 g li: 1 mL	20	999998649919979847994-025 5-9994399984-4-50499884649828420009904
			-				•

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-B7S4		k	t salvababababababababababababababababababa	n Constant you the second mark to be also be a second second second second second second second second second s	ndarme unarganzendar bederkert zugan zur einen aus die	nonanco all'interessione en entresa conse	Shifteen waaraa la dolaado noochool aaccoravitadaabado chijaraaabbe saacar (cag
Client Sample ID: 17563-B754 Client Project ID: 32-1-17563-001 180 Lab Sample ID: 1130981009 Lab Project ID: 1130981	2 Knik G	005e		Collection Received Matrix: So Solids (%)	Date: 03/18/ Date: 03/19/ oil/Solid (dry v): 90.2	'13 15:00 13 12:45 veight)	
Results by Volatile Fuels	ана та артастировна се од њања			**************************************	n 1944 Million Inc. au mar an ann an Million Inc. an	ani na mangang pangka na mangang pangka	arrownia y noas registrich to the second
Paramotor			100/01			•	
Gasoline Range Organics	<u>Result</u> 1.55	U	<u>LOQ/CL</u> 2.58	<u>DL</u> 0.773	<u>Units</u> mg/Kg	<u>DF</u> 1	<u>Date Analyzed</u> 03/25/13 18:57
Surrogates							
4-Bromofluorobenzene	105		50-150		%	1	03/25/13 18:57
Batch Information	raan oo ahaa ahaa tah	NUSSELECTION NOTIFICATION	ensket oberenden forman van verbeiske	NA MEL DA CAR T KARANG KANANG KARANG MELANG KARANG KARANG KARANG KARANG KARANG KARANG KARANG KARANG KARANG KAR	er of a script into anone 13 de Cointe distaire carençaise	94. 65647, 312032, 224, 2864, 294, 294, 294, 294, 294, 294, 294, 29	TERMER MAR HTM I AMERICAN AND AND AND AND AND AND AND AND AND A
Analytical Batch: VFC11377 Analytical Method: AK101 Analyst: ST Analytical Date/Time: 03/25/13 18:57 Container ID: 1130981009-B				Prep Batch: VX Prep Method: S Prep Date/Time: Prep Initial Wt./V Prep Extract Vol	X24589 W5035A 03/18/13 15:0 ′ol.: 68.087 g : 31.6516 mL	0	· ·
<u>Parameter</u>	Result	Qual	LOQ/CL	DL	Units	DF .	Date Analyzed
Benzene	8.24	U	12,9	4.12	ug/Ka	1	03/25/13 18:57
Ethylbenzene	16.1	U	25,8	8.04	ug/Kg	1	03/25/13 18:57
o-Xylene	16.1	Ū	25.8	8.04	ug/Kg	1	03/25/13 18:57
P & M -Xylene	31.0	U	51.5	15.5	ug/Kg	1	03/25/13 18:57
Toluene	16.1	U	25.8	8.04	ug/Kg	1	03/25/13 18:57
Surrogates		*					
1,4-Difluorobenzene	95.9		72-119		%	1	03/25/13 18:57
Batch Information	tifes Martini at angle kanang mena	National Anna ann an Anna Anna Anna Anna Anna	001,054,0-1401,091,071,071,771, 1401,422,4220-8	dde parletto canja fra Grandet Grandste filorandet a Galego fra	ni olan kana dina kana kana kana kana kana kana kana k	4 2009 (4 2 THE CH () AND INC. IN CONTROL OF COMPLEX	ander stadden av forste av street af the street of the street of the street street average and the street avera
Analytical Batch: VFC11377 Analytical Batch: VFC11377 Analytical Method: SW8021B Analyst: ST Analytical Date/Time: 03/25/13 18:57 Container ID: 1130981009-B				Prep Batch: VXX Prep Method: SV Prep Date/Time: Prep Initial Wt./Vo Prep Extract Vol:	(24589 V5035A 03/18/13 15:00 bl.: 68.087 g 31.6516 mL)	
				- Personal Party in the Contract of State Sta	a sondamantiger ganger (1900-badd oldri veg serieger ga	Ner™C / F Educida (A Ministra La Lugarda da Conferencia da Confe	de United Martin Martin (1999) gering synthesis and an
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MR 1947 (19 mar 2016) - 10 Mart 11 Mary 1947 (2018) wa manon mwany superprise - 1066 of Second and Amerika Seco	1919 K. alko urberte dinakan sakakara	STRE VERSE AND INC.	Antikan di Inizia na Kanana	43/05/WEI/977-03641 40			· · ·]
Print Date: 04/03/2013 2:03:37PM				anna an ann an ann an an Angling i na dòra àr ann an an an	angang da Babilin na kérabas na katalan kérabat na kérabat kérabat kérabat kérabat kérabat kérabat kérabat kér	and in the providence of the second se	ta bili na an santa ta beter mitaré ensekan mantéoregas e se sere ^a n - ¹⁹⁴

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∶K nik Gi	DOSE		Collection Received Matrix: So Solids (%)	Date: 03/18/ Date: 03/19/ oil/Solid (dry v):	'13 09:00 13 12:45 veight)	
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<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	DF	Date Analvzed
0.785	ſ	2.50	0.750	mg/Kg	1	03/27/13 16:13
93.6		50-150		%	1	03/27/13 16:13
and the second		Construction - For and a solar and a P P P P P	rep Batch: VX) rep Method: S rep Date/Time: rep Initial Wt./v rep Extract Vol	X24591 W5035A 03/18/13 09:0 /ol.: 50.025 g : 25 mL	1)0	u tana da ku namen da nga nga nga nga nga nga nga nga nga ng
	2 Knik Gi <u>Result</u> 0.785 93.6	2 Knik Goose Result Qual 0.785 J 93.6	2 Knik Goose Result Qual LOO/CL 0.785 J 2.50 93.6 50-150 P P P P	2 Knik Goose Collection Received Matrix: So Solids (%) Result Qual LOQ/CL DL 0.785 J 2.50 0.750 93.6 50-150 Prep Batch: VX. Prep Method: S Prep Date/Time: Prep Initial Wt.A Prep Extract Vol	2 Knik Goose Collection Date: 03/18/ Received Date: 03/19/ Matrix: Soil/Solid (dry v Solids (%): Result Qual LOQ/CL DL Units 0.785 J 2.50 0.750 mg/Kg 93.6 50-150 % Prep Batch: VXX24591 Prep Date/Time: 03/18/13 09:C Prep Initial Wt./Vol.: 50.025 g Prep Extract Vol: 25 mL	2 Knik Goose Collection Date: 03/18/13 09:00 2 Knik Goose Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%): Result Qual LOQ/CL DL Units DF 0.785 J 2.50 0.750 mg/Kg 1 93.6 50-150 % 1 Prep Batch: VXX24591 Prep Method: SW5035A Prep Date/Time: 03/18/13 09:00 Prep Initial Wt./vol.: 50.025 g Prep Extract Vol: 25 mL

Print Date: 04/03/2013 2:03:37PM

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Results of 17563-STB Client Sample ID: 17563-STB Client Project ID: 32-1-17563-001 1802 Knik Goose Lab Sample ID: 1130981010 Lab Project ID: 1130981

Collection Date: 03/18/13 09:00 Received Date: 03/19/13 12:45 Matrix: Soll/Solid (dry weight) Solids (%):

Results by Volatile GC/MS

Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
1 1 2 - Tetrachloroethane	15.6	U	25.0	7.80.	ug/Kg	1	03/27/13 20:52
1 1 1-Trichloroethane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1 1 2 2-Tetrachloroethane	30.0	IJ	50.0 [.]	15.0	ug/Kg	1	03/27/13 20:52
1.1.2-Trichloroethane	· 15.6	U	25,0.	7.80	ug/Kg	1	03/27/13 20:52
1 1-Dichloroethane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1 1-Dichloroethene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1 1-Dichloropropene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.2.3-Trichlorobenzene	30,0	U	50.0	15.0	ug/Kg	1	03/27/13 20:52
1.2.3-Trichloropropane	15.6	U	25.0	7.80	ug/Kg	1.	03/27/13 20:52
1.2.4-Trichlorobenzene	15.6	U	25. 0	7.80	ug/Kg	1	03/27/13 20:52
1.2.4-Trimethylbenzene	30.0	U	50.0	15.0	ug/Kg	1	03/27/13 20:52
1.2-Dibromo-3-chloropropane	62.0	U	100	31,0	ug/Kg	1	03/27/13 20:52
1.2-Dibromoethane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.2-Dichlorobenzene	15.6	Ų.	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.2-Dichloroethane	15.6	IJ	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.2-Dichloropropane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.3.5-Trimethylbenzene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.3-Dichlorobenzene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1.3-Dichloropropane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
1 4-Dichlorobenzene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
2 2-Dichloropropane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
2-Butanone (MEK)	156	U	250	78.0	ug/Kg	1	03/27/13 20:52
2-Chlorotoluane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:5 2
2-Hexanone	156	U	250 ·	78.0	ug/Kg	1	03/27/13 20:52
4-Chlorofoluene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
4-Isonropyitoluene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
4-Methyl-2-pentanone (MIBK)	156	U	250	78.0	ug/Kg	1	03/27/13 20:52
Benzene	7.80	U	12.5	3.90	ug/Kg	1	03/27/13 20:52
Bromobenzene	15.6	υ·	25.0	7.80	ug/Kg	1	03/27/13 20:52
Bromochloromethane	15.6	U	25,0	7.80	ug/Kg	1	03/27/13 20:52
Bromodichloromethane	15.6	IJ	25.0	7:80	ug/Kg	1	03/27/13 20:52
Bromoform	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
Bromomethane	124	U	200	62.0	ug/Kg	1	03/27/13 20:52
Carbon disulfide	62.0	U	100	31,0	ug/Kg	1	03/27/13 20:52
Carbon tetrachloride	15.6	U	25.0 .	7,80	ug/Kg	1	03/27/13 20:52
Chlorobenzene	15.6	IJ	25.0	7.80	ug/Kg	1 ,	03/27/13 20:52
Chloroethane	124	υ	່ 200	62.0	∶ug/Kg	1	03/27/13 20:52
Chloroform	15.6	U	·25.0	7.80	ug/Kg	1	03/27/13 20:52
Chloromethane	15.6	υ	25.0	7.80	ug/Kg	1	03/27/13 20:52
cis-1.2-Dichloroethene	15. 6	. Ù	25.0	7.80	ug/Kg	1	03/27/13 20:52
cis-1,3-Dichloroprobene	15.6	ប	25.0	7,80	ug/Kg	1	03/27/13 20:52
Dibromochloromethane	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
Dibromomethane	15.6	U	25.0	7.80	ug/Kg	. 1	03/27/13 20:52
	90.0		. 50.0	15.0	ua/Ka	1	03/27/13 20:52

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Results of 17563-STB

SG

Client Sample ID: 17563-STB Client Project ID: 32-1-17563-001 1802 Knik Goose

Lab Sample ID: 1130981010

Lab Project ID: 1130981

Collection Date: 03/18/13 09:00 Received Date: 03/19/13 12:45 Matrix: Soil/Solid (dry weight) Solids (%):

Parameter	<u>Result</u>	<u>Qual</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	Date Analyzed
Ethylhenzene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
Hexachlorohutadiene	30.0	U	50.0	15.0	ug/Kg	1	03/27/13 20:52
Isopropylhenzene (Cumene)	· 15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
Methyl-t-hutyl ether	62.0	U	100	31.0	ug/Kg	1	03/27/13 20:52
Methylene chloride	62.0	U	100	31.0	ug/Kg	1	03/27/13 20:52
n-Butylens sheres	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
p-Prony/benzena	15.6	U	25,0	7.80	ug/Kg	1	03/27/13 20 :5 2
Nanhthalene	30.0	U	50.0	15.0	ug/Kg	·1	03/27/13 20:52
o-Xvlene	15.6	Ū	25.0	7.80	ug/Kg	1	03/27/13 20:52
D & M "Xviene	30.0	Ū	50.0	15.0	ug/Kg	1	03/27/13 20:52
	15.6	Ū.	25.0	7.80	ug/Kg	່ 1	03/27/13 20:52
Shrapa	15.6	Ũ	25.0	7.80	ug/Kg	1	03/27/13 20:52
tort-Butvibenzene	15.6	Ŭ	25.0	7,80	ug/Kg	1	03/27/13 20:52
Totrachloroethene	7.80	Ŭ	12.5	3,90	ug/Kg	. 1	03/27/13 20:52
Toluene	15.6	U	25.0	7.80	ug/Kg	1	03/27/13 20:52
trans_1_2-Dichloroethana	15.6	Ū	25.0	7.80	ug/Kg	1	03/27/13 20:52
frans-1,2-Dichloropropene	15.6	Ũ	25.0	7.80	ug/Kg	1	03/27/13 20:52
Trichloroethene	7.80	Ū	12.5	3,90	ug/Kg	1	03/27/13 20:52
Trichlorofluoromethane	30.0	Ū	50.0	15.0	ug/Kg	1	03/27/13 20:52
Vinyl chloride	15.6	Ū	25.0	7.80	ug/Kg	1	03/27/13 20:52
Xylenes (total)	62.0	Ŭ	100	31.0	ug/Kg	1	03/27/13 20:52
Surrogates	-						
1,2-Dichloroethane-D4	113		79-118		%	1	03/27/13 20:52
4-Bromofluorobenzene	107		67-138		%	1	03/27/13 20:52
Toluene-d8	113		85-115		%	1	03/27/13 20:52

Analytical Batch: VMS13430 Analytical Method: SW8260B Analyst: HM Analytical Date/Time: 03/27/13 20:52 Container ID: 1130981010-A

Prep Batch: VXX24585 Prep Method: SW5035A Prep Date/Time: 03/18/13 09:00 Prep Initial Wt./Vol.: 50.025 g Prep Extract Vol: 25 mL

Print Date: 04/03/2013 2:03:37PM

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Herbod Blank Mate Blank ID: MB for HBN 1426064 [MXX/26373] Mate Blank Lab ID: 1142131 QC for Samples: 1130981001, 1130981002, 1130981006, 1130981007 Mate Results by SW6020 Image: Comparison of the system of the s	x: Soil/Solid (1 DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.0120 0.0150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt/Vol.: 1 (1) ract Vol: 50 m	(dry weigh Ur ny mg mg mg mg mg mg mg mg mg mg mg mg mg	nits ng/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/K			
Blank ID: MB for HBN 1426064 [MXX/26373] Mat Blank Lab ID: 1142131 QC for Samples: 1130981002, 1130981006, 1130981007 Results by SW6020 Results LOQ/CL Arsenic 0.620U 1,00 Barlum 0.188U 0.300 Cadmlum 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Analytical Method: SW6020 Prep M Analytical Method: SW6020 Prep M Prep M Analytical Date/Time: 3/27/2013 5:58:07PM Prep E	c: Soil/Solid (1 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.0120 0.0150 0.0310 ch: MXX2637 thod: SW3050 re/Time: 3/27/2 al Wt./Vol.: 1 for ract Vol: 50 m	(dry weigh <u>Ur</u> mi mi mi mi mi mi mi mi mi mi	nits g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/K			
QC for Samples: 1130981001, 1130981002, 1130981006, 1130981007 Parameter Results LOQ/CL Arsenic 0.620U 1.00 Barlum 0.188U 0.300 Cadmium 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Analytical Batch: MMS7916 Prep B Analytical Batch: MMS7916 Prep D Prep D Analytical Batch: Three Sdex ICP-MS P3 Prep D Analytical Batch: Time: 3/27/2013 5:58:07PM Prep D	DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 (ract Vol: 50 m	Ur m m m m m m m m m m m m t 2013 1:00 9 nL	nits ng/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/K			
1130981001, 1130981002, 1130981006, 1130981007 Results by SW6020 Patameter Results Arsenic 0.620U Barium 0.188U 0.300 Cadmlum 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.4000 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Analytical Batch: MMS7916 Prep B Analytical Method: SW6020 Prep M Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analytical Date/Time: 3/27/2013 5:58:07PM	DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 g ract Vol: 50 m	UI my mg mg mg mg mg mg mg mg mg mg mg mg mg	nits g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/K			
Results by SW6020 Parameter Results LOQ/CL Arsenic 0.620U 1.00 Barlum 0.188U 0.300 Cadmlum 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.4000 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Analytical Method: SW6020 Prep M Analytical Method: SW6020 Prep M Analytical Method: SW6020 Prep M Analytical Date/Time: 3/27/2013 5:58:07PM	DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 xch: MXX2637 thod: SW3050 ze/Time: 3/27/2 al Wt./Vol.: 1 t ract Vol: 50 m	Un mi mi mi mi mi mi mi 73 30B 72013 1:00 9 nL	nits ng/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg			
Results by SW6020 Parameter Results LOQ/CL Arsenic 0.620U 1.00 Barium 0.188U 0.300 Cadmlum 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Analytical Batch: MMS7916 Prep B Analytical Batch: MMS7916 Prep D Prep D Analytical Method: SW6020 Prep In Analytical Date/Time: 3/27/2013 5:58:07PM Prep In Analytical Date/Time: 3/27/2013 5:58:07PM Prep E Prep In	DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 re/Time: 3/27/2 al Wt./Vol.: 1 f ract Vol: 50 m	Ur ny my my my my my my 73 ioB i/2013 1:00 g nL	nits 19/Kg 19/Kg 19/Kg 19/Kg 1/Kg 1/Kg 1/Kg			
Parameter Results LOQ/CL Arsenic 0.620U 1.00 Barium 0.188U 0.300 Cadmium 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep B Analytical Batch: MMS7916 Analytical Batch: MMS7916 Prep D Analytical Method: SW6020 Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analytical Date/Time: 3/27/2013 5:58:07PM Prep E	DL 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 t ract Vol: 50 m	Un my my my my my my my 73 50B 72013 1:00 9 nL	nits g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg			
ParameterResultsLOQ/CLArsenic0.620U1.00Barium0.188U0.300Cadmium0.124U0.200Chromium0.240U0.400Lead0.124U0.200Mercury0.0240U0.0400Selenium0.300U0.500Silver0.0620U0.100Batch InformationPrep BAnalytical Batch:MMS7916Analytical Method:SW6020Prep JAnalytical Date/Time:3/27/20135:58:07PM	<u>DL</u> 0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.0150 0.0310 rch: MXX2637 thod: SW3050 re/Time: 3/27/2 al Wt./Vol.: 1 f ract Vol: 50 m	U m m m m m m m m 2013 1:00 g nL	ntts 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg 19/Kg			
Arsenic 0.620U 1.00 Barlum 0.188U 0.300 Cadmlum 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Analytical Batch: MMS7916 Prep B Analytical Batch: MMS7916 Prep B Analytical Method: SW6020 Prep In Analytical Date/Time: 3/27/2013 5:58:07PM Prep In	0.310 0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 re/Time: 3/27/2 al Wt./Vol.: 1 f ract Vol: 50 m	m m m m m m m m m m m m L	Ig/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg D:00PM			
Barium 0.188U 0.300 Cadmium 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep B Analytical Batch: MMS7916 Prep D Analytical Method: SW6020 Prep M Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analytical Date/Time: 3/27/2013 5:58:07PM Prep E	0.0940 0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 g ract Vol: 50 m	mg mg mg mg mg mg mg mg mg 12013 1:00 g nL	g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg	na enforma esta anticipa esta destructa		
Cadmium 0.124U 0.200 Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep Bi Analytical Batch: MMS7916 Prep Di Analytical Method: SW6020 Prep M Prep Di Analytical Date/Time: 3/27/2013 5:58:07PM Prep Ei	0.0620 0.120 0.0620 0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 g ract Vol: 50 m	της της της της της της της της της της	g/Kg g/Kg g/Kg g/Kg g/Kg g/Kg			
Chromium 0.240U 0.400 Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep B. Analytical Batch: MMS7916 Prep D. Analytical Method: SW6020 Prep In Analytical Date/Time: 3/27/2013 5:58:07PM	0.120 0.0620 0.0120 0.150 0.0310 xch: MXX2637 thod: SW3050 ce/Time: 3/27/2 al Wt./Vol.: 1 t ract Vol: 50 m	m m m m m m 73 08 /2013 1:00 g nL	g/Kg g/Kg g/Kg g/Kg g/Kg			
Lead 0.124U 0.200 Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Analytical Batch: MMS7916 Prep B Analytical Method: SW6020 Prep M Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analytical Date/Time: 3/27/2013 5:58:07PM Prep E:	0.0620 0.0120 0.150 0.0310 rch: MXX2637 thod: SW3050 re/Time: 3/27/2 al Wt./Vol.: 1 f ract Vol: 50 m	της της της 73 00Β /2013 1:000 9 nL	g/Kg g/Kg g/Kg D:00PM			
Mercury 0.0240U 0.0400 Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep Bit Prep Bit Analytical Batch: MMS7916 Prep Bit Analytical Method: SW6020 Prep Dit Instrument: Perkin Elmer Sciex ICP-MS P3 Prep In Analytical Date/Time: 3/27/2013 5:58:07PM Prep Either	0.0120 0.150 0.0310 ch: MXX2637 thod: SW3050 te/Time: 3/27/2 al Wt./Vol.: 1 t ract Vol: 50 m	της της 73 60Β 72013 1:00 9 nL	g/Kg g/Kg 	anet ou remarker teatmat		
Selenium 0.300U 0.500 Silver 0.0620U 0.100 Batch Information Prep Bl Analytical Batch: MMS7916 Prep Bl Analytical Method: SW6020 Prep M Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analytical Date/Time: 3/27/2013 5:58:07PM Prep E	0.150 0.0310 ch: MXX26374 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 (ract Vol: 50 m	mş mş 73 i0B i/2013 1:00 g nL	g/Kg g/Kg 			
Silver 0.0620U 0.100 Batch Information Analytical Batch: MMS7916 Prep B Analytical Method: SW6020 Prep M Instrument: Perkin Elmer Sciex ICP-MS P3 Prep D Analyst: ACF Prep In Analytical Date/Time: 3/27/2013 5:58:07PM Prep E	0.0310 ch: MXX2637 thod: SW3050 e/Time: 3/27/2 al Wt./Vol.: 1 ract Vol: 50 m	т 73 ;0В ;/2013 1:00 g nL	g/Kg 	9 (4) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0.4 (1) 0		
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SGS North America Inc. 200 West Potter Drive Anchorage, AK 95 t 907.562.2343 f 907.561.5301 www.us.s	18			14400144144141141141141141141		
	s.com		***************	nber of SGS (Group	***************

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1130981 [MXX26373] Blank Spike Lab ID: 1142132 Date Analyzed: 03/27/2013 18:00

Matrix: Soil/Solid (dry weight)

QC for Samples:

1130981001, 1130981002, 1130981006, 1130981007

Results by SW6020	inninanini si ana ili a s		na fra úra fra sú una tra cománico de contro toto forta de ante popular y te accuse de contro en contro en contro en 1973	anna in 1979 ann an an Anna in Anna in Anna an
	Bla	ank Spike (r	ng/Kg)	•
Parameter	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	CL
Arsenic	50	50.8	102	(80-120)
Barium	50	50.0	100	(80-120)
Cadmlum	5	5.13	103	(80-120)
Chromium	20	20.4	102	(80-120)
Lead	50	52,9	106	(80-120)
Mercury	0.5	0.528	106	(80-120)
Selenium	50	53,2	106	(80-120)
Silver	5	5.33	107	(80-120)

Batch Information

Analytical Batch: MMS7916 Analytical-Method: SW6020 Instrument: Perkin Elmer Sciex ICP-MS P3 Analyst: ACF

Prep Batch: MXX26373 Prep Method: SW3050B Prep Date/Time: 03/27/2013 13:00 Spike Init Wt./Vol.: 50 mg/Kg Extract Vol: 50 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 04/03/2013 2:03:41PM

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Original Sample ID: 11	130981001				Analysis	s Date: 0	3/27/2013	18:02		: .
MS Sample ID: 11421	133 MS	. *			Analysis	s Date: 0	3/27/2013	18:07		
MSD Sample ID: 114	2134 MSD				Analysis	s Date: 0	3/27/2013	18:09		ł
					Matrix:	Soil/Solid	l (dry weig	ht)		
QC for Samples: 113	0981001 , 11 309810	002, 113098	1006, 113	0981007		· ·	· .		1	÷.,
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	Sector Constanting Constanting Constanting Constanting Constanting Constanting Constanting Constanting Constant	Matr	ix Spike (r	ng/Kg)	Spike	Duplicate	(mg/Kg)			
<u>Parameter</u>	Sample	Spike	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD C
Arsenic	3.16	51.3	54.6	100	47.3	49.9	99	80-120	8.93	(< 20)
Barium	45.2	51.3	107	120	47.3	94.9	105	80-120	11.60	(< 20)
Cadmium	0.187	5.13	5.38	101	4.73	4.85	99	80-120	10.30	(< 20)
Chromium	14.3	20.5	41,6	133 *	18.9	36,9	119	80-120	1 2 .00	(< 20)
Lead	2.78	51.3	54.4	101	47.3	49.9	100	80-120	8.60	(< 20)
Mercury	0.0613	. 0.513	0.524	90	0.473	0.565	107	80-120	7.36	(< 20)
Selenium	0.278U	51.3	52.9	103	47.3	47.5	101	80-120	10.80	(< 20)
Silver	0,05740	5.13	5.10	99	4.73	4.65	99	80-120	8.96	(< 20)
Analytical Batch: MMS Analytical Method: SV Instrument: Perkin Ein Analyst: ACF Analytical Date/Time:	57916 V6020 ner Sciex ICP-MS F 3/27/2013 6:07:05	ра 5РМ		Prep Prep Prep Prep Prep	o Batch: M o Method: o Date/Tim o Initial Wt o Extract V	/XX26373 Soils/Soli ae: 3/27/2 ./Vol.: 1.0 /ol: 50.00	ds Digest fc 013 1:00:0 1g mL	or Metals by 0PM	y ICP-MS	
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Bench Spike Summary Original Sample ID: 1130 MS Sample ID: 1142135	981001 BND			18/7720008 cH/rz Michig 44,347 & XXI	Analysis Analysis Analysis	s Date: 03 s Date: 03 s Date:	3/27/2013 3/27/2013	18:02 18:11		neleen doministration and door to be live to be
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QC for Samples: 113098	1001, 113098100	2, 113098	31006, 1130	981007)					
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Paramatar	Sample	Mât Shike	rix Spike (n Regult	Ig/Kg) Rec /%)	Spike Spike	e Duplicate Result	(mg/r\g) Rec (%)	CL.	RPD (%)	RPD CL
<u>Parameter</u> Chromium	<u>sample</u> 14.3	<u>. 116</u>	128	<u>99</u>	<u>obive</u>	<u>r vəburi</u>	1.00 (191	75-125	<u>, (</u> ,0)	
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Analytical Batch: MMS79 Analytical Method: SW60 Instrument: Perkiri Elmer Analyst: ACF Analytical Date/Time: 3/2	916 920 • Sciex ICP-MS P 27/2013 6:11:221	3 ⊵M		Pre Pre Pre Pre Pre	ep Batch: ep Method ep Date/Til ep Initial W ep Extract	MXX26373 : Soils/Soli me: 3/27/2 /t./Vol.: 1.1 Vol: 50.00	ids Digest fo 013 1:00:0 2g mL	or Metals b DOPM	y ICP-MS	
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		Blank ID: MB for HBN 1 Blank Lab ID: 1112223	1426291 [SPT/89	S1]	

Matrix: Soil/Solid (dry weight)

<u>Units</u>

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LOQ/CL

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Results by SM21 2540G NAME AND ADDRESS OF STREET, SALES <u>Parameter</u>

QC for Samples:

Total Solids 100 **Batch Information** Analytical Batch: SPT8961 Analytical Method: SM21 2540G Instrument: Analyst: NEG

<u>Results</u>

Analytical Date/Time: 3/27/2013 6:03:00PM

1130981001, 1130981002, 1130981006, 1130981007

Print Date: 04/03/2013 2:03:42PM

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aeurou diank Blank ID: MB for HBN 1426764 f	SPT/89621	Matri	x: Soil/Solid (dry we	eiaht)	
Blank Lab ID: 1142383	e. noor			a Burn	
0C for Samples: 130981003, 1130981004, 1130981	1005, 1130981008, 1130	981009			
		•	•	•	
Results by SM21 2540G	e i fina la sua dialma, kata annos dibatana n'anto nationality	nikustasta oliai maana karaka maada aya karaka k	CANCENCE ANY CONSERVATION STATEMENT OF CONTRACT, STATEMENT OF CONTRACT, STATEMENT OF CONTRACT, STATEMENT OF CON		
larameter otal Solids	ns and another states of the second secon 1000	LOQ/CL	DL	<u>Units</u> %	
tch Information	රුපින කිලනාකර්ත්රකාරීම ලොල ලොල ලොල පල මාරුක මහ පරාල කිලපාලකානක් කළ පරාල	ాా & లి. ఎలు రాజునురాయణుగుడుకుడునటరు గడిప్లా కళి	1640 July - Suldar V. School - School - Mindler - Market Market Market Market - School - School - School - School		
Analytical Batch: SPT8962 Analytical Method: SM21 2540G Instrument: Analyst: AMB Analytical Date/Time: 3/28/2013	5:25:00 PM			· · ·	
		1913 M K (*******	Mihadi nimindi Mežiani, Vikid nemadi (skohi ni niminov remov		
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SGS North America Inc.	200 West Potter Drive	Anchorage, AK 955 561.5301_www.us.se	18 js.com		• •
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Original Sample ID:	1130981003
Duplicate Sample ID	: 1142384

Analysis Date: 03/28/2013 17:25 Matrix: Soll/Solid (dry weight)

QC for Samples:

Analyst: AMB

1130981003, 1130981004, 1130981005, 1130981008, 1130981009

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Results by SM21 25400	G	all when the data and the same start and the start of the second start and the same start and the same start a		
WHEN NUMBER OF THE OWNER	The second s	74292		
NAME	<u>Original (15.00)</u>	Duplicate (15.00)	<u>RPD (%)</u>	RPD CL
Total Solids	91. <b>9</b>	92.2	0.33	15.00

	Total Collab	01.0		JZ.4
u:	Batch Information	erenne Geschaltelanters ommen versy sing vår serer	Statistical and a subscription of the subscrip	a Tubber a Maria
	Analytical Batch: SP	T8962	. ·	
	Analytical Method: S	M21 2540G		
	Instrument:	· · · · · · · · · · · · · · · · · · ·		

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-Method Blank

Blank ID: MB for HBN 1426259 [VXX/24585] Blank Lab ID: 1142162 Matrix: Soil/Solid (dry weight)

QC for Samples:

1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Results by SW8260B	arr volkoval Alle VIII. La sta dartustu 1908 (s. – V Brei eg. i Baler Veni and Kanetan et Stefen		nan Shudharan 1959 menansakan saminin sani Shudhara	S 1 2 2 Notad V and a valence and the company and a definition of the control of the first and and and a definition of the
Paramater	Results	ଣ LOQ/CL	DL	Units
<u>1 1 1 2-Tetrachloroethane</u>	15.6U	25.0	7.80	ug/Kg
1 1 1-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1 1 2 2-Tetrachloroethane	30.0U	50.0	15.0	ug/Kg
1 1 2-Trichloroethane	15.6U	25.0	7.80	ug/Kg
1.1-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1.1-Dichloroethene	15.6U	25.0	7.80	ug/Kg
1.1-Dichloropropene	15.6U	25.0	7.80	ug/Kg
1.2.3-Trichlorobenzene	30.0U	. 50.0	15.0	ug/Kg
1.2.3-Trichloropropane	15.6U	25.0	7.80	ug/Kg
1.2.4-Trichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2,4-Trimethylbenzene	30,0U	50.0	15.0	ug/Kg
1,2-Dibromo-3-chloropropane	62.0U	100	31.0	ug/Kg
1,2-Dibromoethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
1,2-Dichloroethane	15.6U	25.0	7.80	ug/Kg
1,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,3,5-Trimethylbenzene	15.6U	25.0	7.80	ug/Kg
1,3-Dichlorobenzene	15.6U	25,0	7.80	ug/Kg
1,3-Dichloropropane	15.6U	25.0	7.80	ug/Kg
1,4-Dichlorobenzene	15.6U	25.0	7.80	ug/Kg
2,2-Dichloropropane	15.6U	25.0	7.80	ug/Kg
2-Butanone (MEK)	156U	250	78,0	ug/Kg
2-Chlorotoluene	15.6U	25,0	7.80	ug/Kg
2-Hexanone	156U	250	78.0	ug/Kg
4-Chlorotoluene	15.6U	25.0	7.80	ug/Kg
4-isopropyitoluene	15.6U	25,0	7.80	ug/Kg
4-Methyl-2-pentanone (MIBK)	156U	250	78.0	ug/Kg
Benzene	7.80U	12.5	3.90	ug/Kg
Bromobenzene	15.6U	25.0	7.80	ug/Kg
Bromochloromethane	15.6U	25.0	7.80	ug/Kg
Bromodichloromethane	15.6U	25.0	7.80	ug/Kg
Bromoform	15.6U	25.0	7.80	ug/Kg
Bromomethane	124U	200	62.0	ug/Kg
Carbon disulfide	62 <b>.0</b> U	100	31.0	ug/Kg
Carbon tetrachloride	15.6U	25.0	7.80	ug/Kg
Chlorobenzene	15.6U	25.0	7.80	ug/Kg
Chloroethane	124U	200	62.0	ug/Kg
Chloroform	15.6U	25.0	1.80	ug/ng

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#### Method Blank

Blank ID: MB for HBN 1426259 [VXX/24585] Blank Lab ID: 1142162

#### Matrix: Soil/Solid (dry weight)

QC for Samples:

1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Results by SW8260B	oren andaren berezen en e		an har hada mar mar mar na an	and an and the state of the second state of the state of the second state of the second state of the state of t
Parameter	Results	LOQ/CL	DL	Units
Chloromethane	15.6U	25,0	7.80	ug/Kg
cis-1,2-Dichloroethene	15.6U	. 25.0	7.80	ug/Kg
cis-1,3-Dichloropropene	15.6U	25,0	7.80	ug/Kg
Dibromochloromethane	.15.6U	25,0	7.80	ug/Kg
Dibromomethane	15.6U	25.0	7.80	ug/Kg
Dichlorodifluoromethane	30,0U	50.0	15.0	ug/Kg
Ethylbenzene	15.6U	25.0	7.80	ug/Kg
Hexachlorobutadiene	30.0U	50.0	15.0	ug/Kg
Isopropylbenzene (Cumene)	15.6U	25.0	7.80	ug/Kg
Methylene chloride	62.0U	100	31.0	ug/Kg
Methyl-t-butyl ether	62,0U	100	31.0	ug/Kg
Naphthaiene	30.0U	50.0	15.0	ug/Kg
n-Butylbenzene	15.6U	25.0	7.80	ug/Kg
n-Propylbenzene	15.6U	25.0	7.80	ug/Kg
o-Xylene	15.6U	25.0	7.80	ид/Кд
P & M -Xylene	30.0U	50.0	15.0	ug/Kg
sec-Butylbenzene	' 15.6U	25.0	7.80	ug/Kg
Styrene	15.6U	25.0	7.80	ug/Kg
tert-Butylbenzene	15.6U	25.0	7.80	ug/Kg
Tetrachloroethene	7.80U	12.5	3.90	ug/Kg
Toluene	15.6U	25.0	7.80	ug/Kg
trans-1,2-Dichloroethene	15.6U	. 25.0	7.80	ug/Kg
trans-1,3-Dichloropropene	15.6U	25.0	7.80	ug/Kg
Trichloroethene	7.80U	12.5	3.90	ug/Kg
Trichlorofluoromethane	30.0U	50,0	15.0	ug/Kg
. Vinyl chloridə	15.6U	25.0	7.80	ug/Kg
Xylenes (total)	62.0U	100	31.0	ug/Kg
Surrogates				
1,2-Dichloroethane-D4	111	79-118		%
4-Bromofluorobenzene	98.6	67-138		%
Toluene-d8	103	85-115		%

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Blank ID: MB for HBN 1426259 [V. Blank Lab ID: 1142162	XX/24585]	Matri	x: Soll/Solid (dry	weight)		
QC for Samples: 1130981001, 1130981002, 11309810	03, 1130981007, 11309	81010	• • • •			
Results by SW8260B	n and an and an	Red Hilder Active Register for the Active	u kana kana kana kana kana kana kana kan	er en se finnen en samtenistigen an minister en man der andere andere andere andere andere andere andere andere	NOCESSION OF STREET, ST	
Parameter Reserve and a second s	esults	LOQ/CL	<u>DL</u> .	<u>Units</u>		
Analytical Batch: VMS13430 Analytical Batch: VMS13430 Analytical Method: SW8260B Instrument: Agilent 7890-75MS Analyst: HM Analytical Date/Time: 3/27/2013	ылентаниулысынынынын аехалыктан 5:55:01РМ	Prep B Prep M Prep D Prep In Prep E	atch: VXX24585 ethod: SW5035A ate/Time: 3/27/20 ltial Wt./Vol.: 50 g ktract Vol: 25 mL	13 8:00:00AM	1976211 012603 2004 03463	
	Nevologian - Angel Jay (per same) metrosa ana Andrich ant Calado (Calado (Calado (Calado (Calado (Calado (Cala	ga (geographic), par many anga digi kindar + 4, ani din 4, - 44. Ny (Media) (k	an aga ng ng ng nan tin gada ang ng n	y ne ne konstruktion (by ten and the second ten and the	by and all all an and the set of	
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Blank Spike Summary Blank Spike ID: LCS for HBN 1130981 [VXX24585] Blank Spike Lab ID: 1142163 Date Analyzed: 03/27/2013 18:25

QC for Samples:

1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Matrix: Soil/Solid (dry weight)

Results by SW8260B	addia a tao ang ang bigana ay ang	ginggingengen i versionis villenseere ensis		na an a		nin mandala dalla konstante della della seguna della	in supposed and in a second state of the secon
	E	3lank Spike	(ug/Kg)				
<u>Parameter</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	•,		<u>CL</u>	
1,1,1,2-Tetrachloroethane	750	706	94			(75-125)	
1,1,1-Trichloroethane	,750	815	109			(70-135)	
1,1,2,2-Tetrachloroethane	750	765	102			( 55-130 )	
1,1,2-Trichloroethane	750	783	104			(60-125)	
1,1-Dichloroethane	750	780	104			(75-125)	. '
1,1-Dichloroethene	750	803	107			( 65-135 )	
1,1-Dichloropropene	750	794	106		•	( 70-135 )	
1,2,3-Trichlorobenzene	750	743	99			(60-135)	
1,2,3-Trichloropropane	<b>7</b> 50	773	103			(65-130)	
1,2,4-Trichlorobenzene	750	706	94		·	(65-130)	
1,2,4-Trimethylbenzene	750	721	96			(65-135)	
1,2-Dibromo-3-chloropropane	750	681	91			(40-135)	
1,2-Dibromoethane	750	780	104			(70-125)	
1,2-Dichlorobenzene	750	783	104	•		(75-120)	
1,2-Dichloroethane	750	798	106	· ·		( 70-135 )	
1,2-Dichloropropane	750	773	103			(70-120)	
1,3,5-Trimethylbenzene	750	733	98			( 65-135 )	
1,3-Dichlorobenzene	750	775	103			( 70-125 )	
1,3-Dichloropropane	750	761	101		÷	(75-125)	
1,4-Dichlorobenzene	750	737	98	•		(70-125)	
2,2-Dichloropropane	750	723	96			( 65-135 )	
2-Butanone (MEK)	225 <b>0</b>	2110	94			( 30-160 )	
2-Chlorotoluene	750	780	104		•	(70-130)	
2-Hexanone	2250	2290	102			( 45-145 )	
4-Chlorotoluene	750	758	101			(75-125)	
4-Isopropyltoluene	750	736	98		• •	( 75-135 )	
4-Methyl-2-pentanone (MIBK)	2250	2040	91			( 45-145 )	
Benzene	750	747	100			(75-125)	
Bromobenzene	750	766	102			(65-120)	
Bromochloromethane	750	798	106			(70-125)	
Bromodichloromethane	750	796	10,6			(70-130)	
Bromoform	750	746 ·	99			( 55-135 )	
Bromomethane	750	687	92			(30-160)	
Carbon disulfide	1130	1170	104			(45-160)	

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Blank Spike Summary Blank Spike ID: LCS for HBN 1130981 [VXX24585] Blank Spike Lab ID: 1142163 Date Analyzed: 03/27/2013 18:25

Matrix: Soil/Solid (dry weight)

1130981001, 1130981002, 1130981003, 1130981007, 1130981010 QC for Samples:

^L ERSENZATIONIA AND AND AND AND AND AND AND AND AND AN	er en sen en I	Blank Snike	ansti (ua/Ka)		
Parameter	Spike	Result	Rec (%)		CL
Carbon tetrachloride	750	741	99		( 65-135 )
Chlorobenzene	750	766	102		(75-125)
Chloroethane	750	717	96	•	(40-155)
Chloroform	750	812	108		(70-125)
Chloromethane	750	745	99		(50-130)
cis-1,2-Dichloroethene	750	778	104		(65-125)
cis-1,3-Dichloropropene	750	701	94		(70-125)
Dibromochloromethane	750	760	101		(65-130)
Dibromomethane	750	765	102	•	(75-130)
Dichlorodifluoromethane	750	759	[`] 101		( 35-135 )
Ethylbenzene	750	786	105		(75-125)
Hexachlorobutadiene	750	717	96		( 55-140 )
sopropylbenzene (Cumene)	750	796	106		( 75-130 )
Methyl-t-butyl ether	1130	11 <b>60</b> -	103		(63-149)
Methylene chloride	750	768	102		( 55-140 )
n-Butylbenzene	750	725	97		(65-140)
n-Propylbenzene	750	734	98		( 65-135 )
Naphthalene	750	726	97		(40-125)
o-Xylene	750	784	104		( 75-125.)
^o & M -Xylene	1500	1550	103		(80-125)
sec-Butylbenzene	750	745	99	· .	(65-130)
Styrene	750	727	97		( 75-125 )
tert-Butylbenzene	750	732	98		( 65-130 )
<b>Fetrachloroethene</b>	750	784	105		( 65-140 )
Foluene .	750	768	102		( 70-125 )
rans-1,2-Dichloroethene	750	821	109		( 65-135 )
rans-1,3-Dichloropropene	750	678	90		( 65-125 )
Frichloroethene	750	755	101 .		( 75-125 )
Frichlorofluoromethane	750	795	106		(25-185)
∕inyl chlorlde	750	758	. 101	. '	( 60-125 )
Kylenes (total)	2250	2330 [·]	104		(80-125)
irrogates			•		
1.2-Dichloroethane-D4		104	104		(79-118)

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### Blank Spike Summary

Blank Spike ID: LCS for HBN 1130981 [VXX24585] Blank Spike Lab ID: 1142163 Date Analyzed: 03/27/2013 18:25

Matrix: Soil/Solid (dry weight)

QC for Samples:

1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Results by SW8260B สารสอบการสารสารที่ไ Blank Spike (%) Parameter <u>Result</u> <u>Spike</u> Rec (%) <u>CL</u> 4-Bromofluorobenzene 100 100 (67-138) Toluene-d8 102 102 (85-115) **Batch Information** a area in second 97197768-94884

Analytical Batch: VMS13430 Analytical Method: SW8260B Instrument: Agilent 7890-75MS Analyst: HM

Prep Batch: VXX24585 Prep Method: SW5035A Prep Date/Time: 03/27/2013 08:00 Spike Init Wt./Vol.: 750 ug/Kg Extract Vol: 25 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 04/03/2013 2:03:45PM

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# SGS Matrix Spike Summary

ENERGY CONTRACTOR CONTRACTOR

Original Sample ID: 1142164 MS Sample ID: 1142165 MS

MSD Sample ID: 1142166 MSD

Analysis Date: 03/27/2013 22:46 Analysis Date: 03/27/2013 18:55 Analysis Date: 03/27/2013 19:25 Matrix: Solid/Soil (Wet Weight)

QC for Samples: 1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Results by SW8260B	• •		and the second s	CONVERSION ALCORED TO CRIME THE ACCOUNT	n de have beste skælet for ins de til	nenazeskom stalar kvirtika skriget	12.000 (Contraction of the Contraction of the Contraction of the Contraction of the Contraction of the Contract	6.3x.22344.000000000000000000000000000000000	an a loss a construction and the substration	bener the second second second
L _{REEDEN STREET, STREE}	n da Cana an	Matr	ix Spike (u	g/Kg)	Spike	Duplicate	(ug/Kg)			
<u>Parameter</u>	<u>Sample</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>		<u>RPD (%)</u>	RPD CL
1,1,1,2-Tetrachloroethane	15.2Ú	730	714	98	730	720	99	75-125	0.81	(< 20 )
1,1,1-Trichloroethane	235	730	1030	109	730	1040	111	70-135	1.20	(< 20 )
1,1,2,2-Tetrachloroethane	29.2U	730	878	120	730	844	116	55-130	3.90	(< 20 )
1,1,2-Trichloroethane	15.2U	730	932	128 *	730	898	123	60-125	3.70	(< 20 )
1,1-Dichloroethane	15.2U	730	807	111	730	816	112	75-125	1.00	(< 20)
1,1-Dichloroethene	15.2U	730	757	104	730	745	102	65-135	1.60	(< 20)
1,1-Dichloropropene	15.2U	730	786	108	730	800	110	70-135	1,70	(< 20 )
1,2,3-Trichlorobenzene	29.2U	730	600	82	730	672	92	60-135	11.30	(<.20)
1,2,3-Trichloropropane	15.2U	730	862	118	730	821	113	65-130	4.80	(< 20)
1,2,4-Trichlorobenzene	15.2U	730	529	73	730	598	82	65-130	12.20	(< 20)
1,2,4-Trimethylbenzene	44,0J	730	601	76	730	614	78	65-135	2,10	(< 20 )
1,2-Dibromo-3-chloropropane	60.4U	730	784	107	730	824	113	40-135	5.00	(< 20)
1,2-Dibromoethane	15.2U	730	927	127 *	730	875	120	• 70-125	5.80	(< 20)
1,2-Dichlorobenzene	15.2U	730	678	93	730	696	95	75-120	2.60	(< 20)
1,2-Dichloroethane	15.2U	730	924	127	730	891	122	70-135	3.60	(< 20)
1,2-Dichloropropane	15.2U	730	825	113	730	821	113	70-120	0.44	(< 20)
1,3,5-Trimethylbenzene	18.7J	730	554	73	730	571	76	65-135	2.90	(< 20)
1,3-Dichlorobenzene	15,2U	730	632	87	730	642	88	70-125	1,50	(< 20)
1,3-Dichloropropane	15.2U	730	881	121	730	856	117	75-125	2.90	(< 20)
1,4-Dichlorobenzene	15.2U	730	614	84	730	622	85	70-125	1.20	(< 20)
2,2-Dichloropropane	15.2U	730	719	99	730.	721	99	65-135	0.30	(< 20)
2-Butanone (MEK)	152U	2190	2790	127	2190	2680	122	30-160	4.10	(< 20)
2-Chlorotoluene	15.2U	730	664	91 .	730	653	90	70-130	1.70	(< 20)
2-Hexanone	152U	2190	2860	131	2190	2770	126	45 <b>-</b> 145	3.40	(< 20 )
4-Chlorotoluene	15.2U	730	645	88	730	666	91	75-125	3.30	(< 20 )
4-Isopropyltoluene	1420	730	1850	<b>59 *</b> ,	730	1970	76	75-135	6.30	(< 20)
4-Methyl-2-pentanone (MIBK)	91.2J	2190	2660	118	2190	2580	114	45-145	3,10	(< 20 )
Benzene	8.75J	730	765	104	730	772	105	75-125	0.89	(< 20)
Bromobenzene	15.2U	730	747	102	730	742	102	65-120	0.75	(< 20)
· Bromochloromethane	15,2U	730	886	121	730	875	120	70-125	1.30	(< 20)
Bromodichloromethane	15.2U	730	857	118	730	840	115	70-130	2.00	(< 20)
Bromoform	15.2U	730	850	116	730	817	112	55-135	3.90	(< 20)
Bromomethane	121U	730	689 .	95	730	717	98	30-160	4.00	(< 20)
Carbon disulfide	60.4U	1090	1180	108	1090	1170	107	45-160	0.39	(< 20)
Carbon tetrachioride	15.2U	730	718	99	730	724	99 .	65-135	0.84	(< 20)
Chlorobenzene	15.2U	730	785	108	730	797	1.09	75-125	1.50	(< 20 )
Chloroethane	121U	730	747	102	730 .	751	103	40-155	0.52	(< 20 )
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Matrix Spike Summary Original Sample ID: 1142164 MS Sample ID: 1142165 MS MSD Sample ID: 1142166 MSD

Analysis Date: 03/27/2013 22:46 Analysis Date: 03/27/2013 18:55 Analysis Date: 03/27/2013 19:25 Matrix: Solid/Soil (Wet Weight)

QC for Samples:

1130981001, 1130981002, 1130981003, 1130981007, 1130981010

Results by SW8260B			-	น้องการสารารรับวิธีการสารารราชการสารา	North Marian Street of Street	near ranna an an an an an an		a yangan di anak maja tané ang	is many visit of prestring a subvice p	linkrasterijen: one ortere state of
* RETAILART TOTAL REPORT OF TAXABLE PROVIDED IN THE	. In the second second second	Mat	rix Spike (	ug/Kg)	Spike	Duplicate	(ug/Kg)		•	
<u>Parameter</u>	<u>Sample</u>	. <u>Spike</u>	<u>Result</u>	Rec (%)	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
Chloroform	15.2U	730	840	115	730	842	115	70-125	0.17	(< 20 )
Chloromethane	15.2U	730	820	112	730	839	115	50-130	2.30	(< 20 )
cis-1,2-Dichloroethene	15.2U	730	825	113	730	827	113	65-125	0.24	(< 20 )
cis-1,3-Dichloropropene	15.2U	730	759	104	730	751	103	70-125	1.10	(< 20 )
Dibromochloromethane	15.2U	730	835	114	730	811	111	65-130	2.80	(< 20)
Dibromomethane .	15.2U	730	899	123	730	860	118	75-130	4.40	(< 20 )
Dichlorodifluoromethane	29.2U	730	794	109	730	785	108	35-135	1.10	(< 20 )
Ethylbenzene	13.6J	730	746	100	730	769	104	75-125	3.10	(< 20 )
Hexachlorobutadiene	29.2U	730	399	55 *	730	411 .	56	55-140	- 3,10	(< 20)
Isopropylbenzene (Cumene)	15.2U	730	670	92	730	685	94	75-130	2.10	(< 20 )
Methyl-t-butyl ether	60.4U	1090	1350	124	1090	1350	124	63-149	0.00	(< 20)
Methylene chloride	60.4U	730	828	113	730	799	110	55-140	3.50	(< 20)
n-Bulylbenzene	15.2U	730	454	62 *	730	473	65 *	65-140	. 4.10	(< 20 )
n-Propylbenzənə	12.2J ·	730	554	74	730.	570	77	65-135	2.90	(< 20)
Naphthalene	33.3J	730	794	104	730	866	114	40-125	8.70	(< 20 )
o-Xylene	57.6	730	822	105	730	826	105	75-125	0.50	(< 20)
P & M -Xylene	69.1	1460	1530	100	1460	1560	102	80-125	1.70	(< 20)
sec-Butylbenzene	15.2U	730 .	1130	155 *	730	1240	170 *	65-130	9.10	(< 20)
Styrene	45.0	730	759	98	[.] 730	757	98	75-125	.0.22	(< 20)
tert-Butylbenzene	15.2U	730	504	69	730	518	71	65-130	2.90	(< 20)
Tetrachloroethene	7,58U	730	710	97	730	733	101	65-140	3.20	(< 20 )
Toluene	9.97J	730	781	106	730	796	108	70-125	1.90	(< 20 )
trans-1,2-Dichloroethene	15.2U	730	788	108	730	787	108	65-135	0.03	(< 20)
trans-1,3-Dichloropropene	15.2U	730	765	105	730	742	102	65-125	3.00	(< 20)
Trichloroethene	7,58U	730	745	102	730	758	104	75-125	1.70	(< 20)
Trichlorofluoromethane	29.2U	730	759	104	730	791	108	25-185	4.10	(< 20 )
Vinyi chloride	15.2U	730	809	111	730	826	113	60-125	2.10	(< 20)
Xylenes (total)	127	2190	2350	102	2190	2380	103	. 80-125	1.30	(< 20 )
Surrogates										
1,2-Dichloroethane-D4			848	116		833	114	79-118	1.70	
4-Bromofluorobenzene			1790	· 92		<b>1</b> 810	93	67-138	1.30	
Toluene-d8			744	102		768	105	85-115	3.20	
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Matrix Spike Summay         Analysis Date:           Original Sample ID: 1142164         Analysis Date:           MS Sample ID: 1142165 MSD         Analysis Date:           MS Sample ID: 1142165 MSD         Analysis Date:           Matrix Spike Samples ID: 1142166 MSD         Analysis Date:           Matrix Spike Mitch         Matrix Spike (%)           GC for Samples:         1130991002, 1130991002, 1130991002, 1130991007, 1130991007, 1130910100           Result by SWB200F         Matrix Spike (%)           Matrix Spike Mitch         Spike Dupfleate (%)           Panemater         Sample ID: 1142165 MSD           Analysis Date:         Matrix Spike (%)           Spike Temperative Mitch Mitch         Spike Result Rec.(%)           Panemater         Sample ID: 1142165 MSD           Analysis Date:         Matrix Spike (%)           Panetocol Spike Temperative Mitch Mitch         Matrix Spike (%)           Prop Educt Vice 22:001         Prop DateTime: 202002           Matrix Spike Temperative Mitch Mitch         Matrix Spike (%)           Analysis Date:         Matr	Matrix S Original			•			•				i.	
Origined Sample ID: 1142164         Analysis Date: 03/27/2013 18:25           MSS Sample ID: 1142166 MSD         Analysis Date: 03/27/2013 18:25           MSD Sample: ID: 1142166 MSD         Math:: Solid/Soli (Wet Weight)           GC for Sample::         1130861002, 1130861002, 1130861002, 1130881002, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 1130881007, 113088100	Original	pike Summary	Contraction of the Contraction o		and the second s	*****	der bien (dezen), franken honster dit is		16.0. (78.08), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07), (19.07	and its concerning and the statements	n men nya dia kacamatan dara kangangan di kangangan di kangangan di kangangan di kangangan di kangangan di kang	ant a far an an air
Testifie by SW8250B       Matrix Spike (%)       Spike Depicete (%)         Parameter       Spike Robit Roc (%)       Spike Robit Roc (%)         Patch Information       Analytical Matrix SW8200 Field Extincted L         Analytical Matrix SW8200 Field Extincted L       Prop Batch: VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Datch: VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Matrix VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Matrix VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Matrix VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Matrix VX024565         Analytical Matrix SW8200 Field Extincted L       Prop Matrix VX024565         Matrix SW820 Field Extincted L       Extincted L         Matrix SW820 Field Extincted L       Extincted L	MSD Sa MSD Sa QC for Sa	Sample ID: 11421 ple ID: 1142165 mple ID: 1142166 amples: 1130981	64 MS 3 MSD 1001, 113098	31002, 113098	1003, 113	0981007, 1	Analysis Analysis Analysis Matrix: ६ 130981010	Date: Date: 03 Date: 03 Solid/Soll	/27/2013 /27/2013 (Wet Wei	18:55 19:25 ght)		· ·
The Date: 04:0002015 2:03:MEM       200 Most Poter Drive Anchorage, AK 95:118       Spike Duplicate (%)         Partmeter       Sample       Spike Result       Rec.(%)       Spike Duplicate (%)         Partmeter       Sample       Spike Result       Rec.(%)       Spike Duplicate (%)         Partmeter       Sample       Spike Result       Rec.(%)       Spike Duplicate (%)         Partmeter       Analytical Method: SW2800 Field Extracted L       Prop Data: VXX24985         Prop Data:       Prop Data:       Prop Data:       Prop Data:         Analytical Date/Time:       3/27/2013       6:55:00PM       Prop Data:       Prop Extract Vol: 25:00mL	Rosulte	ov \$109260D	Luudi jähkivetti ann -1920 (m. 1. n. 44)		······	•	-	•	· ·	·	land and a second	
Parameter     Samade     Spike     Result     Result<	Results	)y <b>Jyyozoub</b>	Agaza kururat	Ma	atrix Spike	(%)	Spik	e Duplicat	e (%)			energi and and a second se
Tark Using       Prop Batch:: VXX24886         Analytical Batch:: VXX2803       Prop Batch:: VXX24886         Instrument: Aglient 7809-76MS       Prop Dato(Time: 3/27/2013 8:00.00AM         Analytical Method:: SVX2803       Prop Dato(Time: 3/27/2013 8:00.00AM         Analytical Method:: SVX2803       Prop Extract Vol: 25.00ml         Prop Dato/Time: 3/27/2013 8:00.00AM       Prop Extract Vol: 25.00ml         Analytical Method: SVX2803       Prop Extract Vol: 25.00ml         Prop Extract Vol: 25.00ml       Prop Extract Vol: 25.00ml	Paramete	ſſ	<u>Sample</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	. <u>Result</u>	<u>Rec (%)</u>	<u>ÇL</u>	<u>`RPD (%)</u>	RPD CL
Tint Dele: 04/03/2013 2:03:48FM SGS North America Inc.	Analyti Analyti Analyti Instrum Analys Analyti	formation cal Batch: VMS134 cal Method: SW820 nent: Agilent 7890-7 t: HM cal Date/Time: 3/27	30 30B 75MS 7/2013 6:55		2010 1917 - 2017 - 2019 - 2019	Pre Pre Pre Pre	p Batch: V2 p Method: 7 p Date/Time p Initial Wt., p Extract Ve	XX24585 Vol. Extra le: 3/27/20 /Vol.: 51.4 /ol: 25.00n	ction SW82 )13 8:00:0 10g nL	260 Field )0AM	Extracted L	р ( <b>1964) (1967) (1977) (1977)</b>
Tint Delis: 64/03/2013 2:03:46FM SGS North America Inc. 200 West Potter Drive Anchorage, AK 95518 1907.562.2343 f 907.561.5391 www.us.sgs.com Member of SGS Group 56 of 70	Han unharapámar-rey-saugada	ngan mununya dina dan dina dan sama dan sama dina na n	darennen half men en e	g mysipaited an er gerendynet var pondekkenten	et dia ta come no dana madeines	1	fan name oak neder bien bereker ek			h - 1999 gift an t- Thaordon an		ran yang yang kanang kang kang kang kang kang kang
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QC for Samples: 1130981004, 1130981005, 1130981006, 1130981008, 113	0981009				
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Results by AK101		ne in the section of the section of the	ana da ang ang ang ang ang ang ang ang ang an	at lyng of the sector of the	an daaraa ay ahaa ahaa ahaa ahaa ahaa ahaa a
Parameter Results	.a	LOQ/CL	<u>DL</u>	Units	
Gasoline Range Organics 1.50U		2.50	0.750	mg/Kg	
Surrogates       4-Bromofluorobenzene     93.6	• ,	50-150	÷ .	%	
	niningen (kara) kup	an a	l, a 21% right stations, The Addres, The Add	lingua un frès muchen d'aux d'a ces durante d'arrenderes	alana debaharan karalar di digar diga daga di diga da ara da d
Analytical Batch: VFC11377 Analytical Method: AK101 Instrument: Agilent 7890A PID/FID Analyst: ST Analytical Date/Time: 3/25/2013 2:39:00PM		Prep B Prep M Prep D Prep In Prep E	atch: VXX24589 lethod: SW5035 late/Time: 3/25/ litial Wt./Vol.; 50 xtract Vol: 25 m	9 A 2013 8:00:00AM ) g L	• •
	-	alan ana ang sa kata ang s	dala alama digada ka panja malama p		и (тото та то
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Print Date: 04/03/2013 2:03:46PM

SGS North America Inc.

200 West Potter Drive Anchorage, AK 95518 t 907.562.2343 f 907.561.5301 www.us.sgs.com

Blank Spike Summary	alon oʻndar tabina sonati aski i	na an trainin na chuire na chuan	Series Completer Antonio	CLÉRICH THINK IN THE WAY IN SUCCESSION	nigelysiana watalani da bakata ini	¥&#\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$</th><th>and proved to be the second /th><th>teran sa kana nantan na manana sa kanana</th><th>aguaran da cana procendo na anterio de tra de tr </th></tr><tr><th>Blank Spike ID: LCS for HBI</th><th>N 1130981 ]</th><th>VXX2458</th><th>9] .</th><th>Spi</th><th>ke Duplica</th><th>ate ID: LCS</th><th>SD for HBN 1</th><th>130981</th><th>,</th></tr><tr><th>Blank Spike Lab ID: 114236 Date Analyzed: 03/25/2013</th><th>4</th><th></th><th>• .</th><th>[VX Sni</th><th>(X24589] ke Duplica</th><th>ate Lab ID.</th><th>1142365</th><th></th><th>-</th></tr><tr><th>Date Analyzeu. 00/20/2010</th><th>10.00</th><th></th><th>•</th><th>Ma</th><th>trix: Soil/S</th><th>Solid (dry w</th><th>elght)</th><th>•</th><th>÷</th></tr><tr><th>OC for Samples: 1130981</th><th>1004, 113098</th><th>1005. 1130</th><th>981006, 113</th><th>30981008.</th><th>11309810</th><th>)9 .</th><th></th><th></th><th>5 ¹</th></tr><tr><th></th><th></th><th></th><th></th><th> ,</th><th></th><th></th><th></th><th></th><th></th></tr><tr><th>Reulte hy AK101</th><th>ne ay afa salar Lata David Anton Y</th><th>n fara ayan dan sebertah sebertah</th><th></th><th>•</th><th></th><th>•</th><th></th><th></th><th></th></tr><tr><th></th><th>enistreotos P</th><th>lank Snike</th><th>(ma/Ka)</th><th>*****</th><th>Snike Du</th><th>nlicate ()</th><th></th><th></th><th></th></tr><tr><th>Parameter</th><th>Spike</th><th>Result</th><th>Rec (%)</th><th>Spike</th><th>Result</th><th><u>Rec (%)</u></th><th>CL</th><th><u>RPD (%)</u></th><th>RPD.CL</th></tr><tr><td>Gasoline Range Organics</td><td>10.0</td><td>10.3</td><td>103</td><td>10.0</td><td>10.2</td><td>102</td><td>( 60-120 )</td><td>1.50</td><td>(< 20 )</td></tr><tr><td>urrogates</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>4-Bromofluorobenzene</td><td></td><td>96.2</td><td>96</td><td>1.25</td><td>94.9</td><td></td><td>( 50-150 )</td><td>1.30</td><td></td></tr><tr><td>242-241-4-422-228-228-228-228-2115-2004-00-0-1-10-00-00-0-0-1-</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>Batch Information</td><td>an an a</td><td>vannaarvan van Vinterne Konstar Vie</td><td>n an a' ann a' an ann an ann an an an an an an an an a</td><td>terentinen, 1962 - Nobelse</td><td>formal factor successions</td><td>na ar a chur na machairt Gular Gul - Aith</td><td>en senerar antara de la composition de</td><td>er an an eine eine eine eine eine eine ein</td><td>ananoninina composita i stantany. T</td></tr><tr><td>Analytical Batch: VFC11377</td><td></td><td></td><td></td><td>Pre</td><td>p Batch: V</td><td>XX24589</td><td></td><td></td><td></td></tr><tr><td>Analytical Method: AK101 Instrument: Acident 7890A P</td><td>ID/FID</td><td></td><td></td><td>Pre Pre</td><td>p Method: p Date/Tim</td><td>SW5035A e: 03/25/201</td><td>3 08:00</td><td></td><td></td></tr><tr><td>Analyst: ST</td><td></td><td></td><td>•</td><td>Spi</td><td>ke Init Wt./\</td><td>/ol.: 10.0 m</td><td>g/Kg Extrac</td><td>Vol: 25 mL</td><td></td></tr><tr><td>4 A.</td><td></td><td></td><td></td><td>. Dup</td><td>be Init Wt./\</td><td>/ol.: 10.0 mg</td><td>J/Kg Extract</td><td>Vol: 25 mL</td><td></td></tr><tr><td>n and the second of the second sec</td><td>Earle & consider the good above che</td><td></td><td>which which the second shift of a state of the state of the</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td>•</td><td>allin, fankingalaninan, a alasaki</td><td>424244 A.C. 3234247764667764667</td><td>าราย การกระบุจากสหราง <b>จาก</b>ารส่</td><td>13 \$54 \$544, 6667464444, \$4. 43 \$46846446445426 \$26 \$4</td><td>1. 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 199 1</td><td></td></tr><tr><td>•</td><td></td><td>·</td><td></td><td></td><td>42494 Augusta A</td><td>4743 1747 1997 1997 1997 1997 1997 1997 1997</td><td>13945994, HATLANN, JA., J. HARLAN, HARLAN, 2005</td><td>5.0000 and a 1990 and a 1990 and 1990 a</td><td></td></tr><tr><td>•</td><td>•</td><td></td><td></td><td>2000-120000200020002002002000</td><td>1999, An 1999, Second Science</td><td></td><td>gyn yw fwldwr, far y ferfan y far yw far yn yn far yn yn far yn yn gyn yn gyn gan yn gyn gyn gyn gyn gyn gyn g</td><td>1986 AV 48. 4940 AL IN 1997 AV</td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>aunn Leannakkerraen (* annab)</td><td>under and endersteiner some</td><td>9-11-11-11-11-11-11-11-11-11-11-11-11-11</td><td>0940000, 1444 (aon, jun - Marina Kati - 2016)</td><td>санити на отел на полтото -</td><td></td></tr><tr><td>• • •</td><td></td><td></td><td></td><td></td><td>UIT TOTAL</td><td>ачан-аладраан-килинилтелл</td><td>a fundos des fondos en alterados en alterados en alterados en alterados en alterados en alterados en alterados</td><td></td><td></td></tr><tr><td></td><td>• • •</td><td>•</td><td></td><td></td><td>and a subset of the /td><td>ачит-лецералискияния немя</td><td>a fungas dan kasala da sa /td><td></td><td></td></tr><tr><td></td><td>• • •</td><td>•</td><td></td><td></td><td>, ((() () () () () () () () () () () () (</td><td>очитолодогодиналити неиз ,</td><td></td><td></td><td></td></tr><tr><td>•</td><td>· ·</td><td>•</td><td></td><td></td><td>, a</td><td>ачит-олгарталин жилл теол</td><td>a propos dan program and a sure sure</td><td></td><td></td></tr><tr><td></td><td>· · ·</td><td></td><td></td><td>4 </td><td></td><td>сонтоллорганийн нэлтэгэээ •</td><td></td><td></td><td></td></tr><tr><td></td><td>· · ·</td><td></td><td></td><td></td><td></td><td>алиналандараашкананын ненл ,</td><td>a protoco di ne occoso di ne occo</td><td></td><td></td></tr><tr><td></td><td>· · ·</td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td>. ·</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td>сонтоллорганийн нэллэгээл •</td><td>9 (1999) (1994) (1994) </td><td></td><td></td></tr><tr><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td></td><td>, .</td><td>, ₁, ₁, ₁, ₁, ₁, ₁, ₁, ₁</td><td></td><td></td></tr><tr><td></td><td></td><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td><td>, (1) </td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td>, (14) A A A A A A A A A A A A A A A A A A A</td><td></td><td></td><td></td><td>· · ·</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>
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## Wethod Blank

Blank ID: MB for HBN 1426758 [VXX/24589] Blank Lab ID: 1142361 Matrix: Soil/Solid (dry weight)

QC for Samples:

1130981004, 1130981005, 1130981006, 1130981008, 1130981009

#### Results by SW8021B

L MARTIN MARKANAL TATION TO A TARAFARA		2500			
<u>Parameter</u>	Results	LOQ/CL	<u>DL</u>	<u>Units</u>	
Benzene	8.00U	12.5	4.00	ug/Kg	
Ethylbenzene	15.6U	25.0	7.80	ug/Kg	
o-Xylene	15.6U	25.0	7.80	ug/Kg	
P & M -Xylene	30.0U	50.0	15.0	ug/Kg	
Toluene	15.6U	25.0	7.80	ug/Kg	
Surrogates		•			
1,4-Difluorobenzene	95.5	72-119		%	

#### Batch Information

Analytical Batch: VFC11377 Analytical Batch: VFC11377 Analytical Method: SW8021B Instrument: Agilent 7890A PID/FID Analytical Date/Time: 3/25/2013 2:39:00FM

Prep Batch: VXX24589 Prep Method: SW5035A Prep Date/Time: 3/25/2013 8:00:00AM Prep Initial Wt./Vol.: 50 g Prep Extract Vol: 25 mL

Print Date: 04/03/2013 2:03:48PM

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Blank Spike Summary Blank Spike ID: LCS for I Blank Spike Lab ID: 1142 Date Analyzed: 03/25/2	HBN 1130981 2362 013 14:58	[VXX2458	9] -	Spi [V) Spi Ma	ike Duplica (X24589] ike Duplica trix: Soil/S	ate ID: LCS ate Lab ID: Solid (dry w	5D for HBN 1 1142363 eight)	130981
QC for Samples: 1130	981004, 113098	31005, 1130	981006, 113	30981008,	11309810		-	ر
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Results by SW8021B	an a		A STATE AND A STAT	an a	a na anna an taonn an taonn an taonn an taoinn	entrea material cost etxentritus state		labertermeterster sterre attestand
	energenterenderen. F	Blank Spike	(ug/Kg)		Spike Du	plicate ()		
<u>Parameter</u>	<u>Spika</u>	Result	Rec (%)	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>
Benzene	1250	1360	109	1250	1340	107	(75-125)	1.60
Ethylbenzene	1250	1290	103	1250	1260	101	(75-125)	2.30
o-Xylene	1250	1250	100	1250	1230	99	(75-125)	1.70
P & M -Xylene	2500	2570	103	2500	2520	101	( 80-125 )	1.90
Toluene	1250	1270	102	1250	1250	100	( 70-125 )	1.50
Surrogates				•				
1,4-Difluorobenzene		100	100	1250	98.4	•	(72-119)	1.70
Batch Information Analytical Batch: VFC113 Analytical Method: SW80 Instrument: Agilent 7890, Analyst: ST	177 21B A PID/FID	n na	KUNDELETANA KUNDELETAN	Pre Pre Pre Spil Dup	p Batch: V p Method: p Date/Tim ke Init Wt./\ be Init Wt./\	XX24589 SW5035A e: 03/25/201 /ol.: 1250 ug /ol.: 1250 ug	<b>3 08:00</b> ŋ/Kg Extract /Kg Extract	: Vol: 25 mL Vol: 25 mL

Plint Date: 04/03/2013 2:03:49PM

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RPD CL

(< 20 ) (< 20 ) (< 20 ) (< 20 ) (< 20 )

Matrix Spike Summary Original Sample ID: 1130981006 MS Sample ID: 1142366 MS MSD Sample ID: 1142367 MSD

Analysis Date: 03/25/2013 17:25 Analysis Date: 03/25/2013 17:43 Analysis Date: 03/25/2013 18:02 Matrix: Soil/Solid (dry weight)

QC for Samples: 1130981004, 1130981005, 1130981006, 1130981008, 1130981009

Results by SW8021B	nerill diel das (Häufger, Gernah n. n. n. erste autoritikasies 2023)		CONT STORY	10114 20124 2012000000000000000000000000	n nérokési és maly jarang	12 Mart - North Western Taxana	ENER MARTINE CONTRACTOR	Manusco Astronomica da Maria	and the second	
	na order see a sublicities of the	Mai	rix.Spike (	ug/Kg)	Spike	Duplicate	(ug/Kg)			•
<u>Parameter</u> Benzene	<u>Sample</u> 6.96U	<u>Spike</u> 1020	<u>Result</u> 1069	<u>Rec (%)</u> 105	<u>Spike</u> 1020	<u>Result</u> 1089	<u>Rec (%)</u> 107	<u>CL</u> 75-125	<u>RPD (%)</u> 2.60	<u>RPD CL</u> (< 20.)
Ethylbenzene	13.6U	1020	1004	99	1020	1038	102	75-125	3,10	(< 20)
o-Xylene	13.6U	1020	988	97	1020	1012	99	75-125	2.40	(< 20)
P & M -Xylene	26.2U ·	2035	2035	100	2035	2076	102	80-125	1.70	(< 20)
Toluene	13.6U	1020	1002	98	1020	1038	102	70-125	3.50	(< 20)
Surrogates				,						
1,4-Difluorobenzene			996	98		1001	98	72-119	0.47	

Batch Information Analytical Batch: VFC11377 Analytical Method: SW8021B Instrument: Agilent 7890A PID/FID Analyst: ST Analytical Date/Time: 3/25/2013 5:43:00PM

Prep Batch: VXX24589 Prep Method: AK101 Extraction (S) Prep Date/Time: 3/25/2013 8:00:00AM Prep Initial Wt./Vol.: 63,00g Prep Extract Vol: 25,00mL

Print Date: 04/03/2013 2:03:49PM

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The Construction of the temperature of temperature		neline ( 1936 - ne indenne) di generativa di distato di		2010-00-001-00-00-00-00-00-00-00-00-00-00		nda manangkapat kana angkanan na kanangkapat kanangkapat kanangkapat kanangkapat kanangkapat kanangkapat kanang	artos seconotropartos dos careles filmas	adaa addaa ay ya dhaa ay ahaa ahaa ahaa
Blank Lib DY, H1426550 [VXX/24691]         Mathic: Solid-Solid (BT) weight)           Blank Lib DY, H142655         Geodeside (BT) weight)           [Results by AK101			xxx.			(drauiolichit)		
OC 67 Samples: 1130981001, 1130981002, 1130981007, 1130981010         Feasible by AK101         Paramatic       Beaulis         Casoline Range Organics       0.914.J         Surrogates       0.9750         1.4.Dillico forzone       94.6         72-119       %         4-Bromofiloorubenzene       90.7         Sourogates       94.6         Analytical Batch: VFC/1381       Prep Batch: VXC24601         Analytical Batch: VFC/1381       Prep Method: SW035A         Analytical Batch: VFC/1381       Prep Match: VXC24601         Analytical Dato/Time: 32772013       1:11:00PM         Prep Extrect Vol: 25 mL       Prep Extrect Vol: 25 mL	Blank ID: MB for HBN 142699 Blank Lab ID: 1142415	58 [VXX/24591]		Matrò	a Son/Sond (	(ury weight)		
Paramittati       Results by AK101         Paramittati       Results       LOQ/CL       DL       Ubits         Gendine Range Organics       0.914J       2.50       0.750       mg/fg         Surrogates       94.6       72.419       %         A-Bironeflucoherazene       94.6       72.419       %         Analytical Batch:       VCC11841       Prop Batch:       VXX24591         Analytical Batch:       VC11841       Prop Method:       SW0358A         Analytical Date/Time:       32772013       1:11:00PM       Prop Extract Vol: 25 mL         Prop Initial WL/Vol:: 50 g       Prop Extract Vol: 25 mL       Prop Extract Vol: 25 mL	QC for Samples: 1130981001, 1130981002, 1130	981003, 1130981007, [.]	1130981010		· ·	. · · ·		
Parameter     Double     Data Section       Parameter     Baseline     LOQUCL     DL     Multis       Genetine Range Organice     0.914.1     2.50     0.750     mg/Kg       Surrogates     14-Dittoroberzone     94.6     72-119     %       A-Bronofilooroberzone     90.7     50-150     %       Batch Information     Prep Batch: VXX24591     Prep Mathod: SW6036A       Analytical Both: VFC1181     Prep Datch: VXX24591       Analytical Both: VFC11821     Prep Datch: VXX24591       Analytical Both: VFC11831     Prep Datch: VXX24591       Analytical Method: SA101     Prep Datch: VXX24591       Analytical Both: VFC11831     Prep Datch: VXX24591       Analytical Date/Time: 3/27/2013     1:11:00PM       Prep Extred Vol: 22 m.L     Prep Extred Vol: 22 m.L	Dooullo by AV101	1 20 ф. К. ф. 2000 г. 1927 (1999 – 1994) Ф. 4 (1997 – 2003) 1996 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997 – 1997					100 years and backstone of the	edakuuruantoondako pärtyöök kaunakuurutuko daak
Parameter     House       Gaseline Range Organics     0.914J     2.50     0.750     marking       Surrogates     1,4-Dittoroborizone     94.6     72.119     %       4-Bromofluoroberzone     90.7     50-150     %       Batch Information     90.7     50-150     %       Analytical Batch: VFC11381     Prop Batch: VXX24691     Prop Method: SW6035A       Analytical Machod: AK101     Prop Datch: VXX247013     8.00.00AM       Prop Datch: VXX24701     SW6035A     Prop Datch: VXX247013       Analytical Date/Time: 32272013     1:11:00PM     Prop Extend Vol: 25 mL		ernen er en en er				Unite		
Surrogates (A-Difucebenzene       94.6       72-119       %         A-Bromofluorobenzene       90.7       50-150       %         Batch Information       Prop Batch: VXX24591       %         Analytical Batch: VFC11381       Prop Datch: VXX24591       %         Analytical Batch: VFC11381       Prop Datch: VXX24591       %         Analytical Datch: VFC11381       Prop Datch: SW5035A       %         Analytical Datch: VFC11381       Prop Datch: SW5035A       %         Analytical Datch: VFC11381       Prop Datch: SW5035A       %         Analytical Datch: SW5035A       %       %         Analytical Date/Time: 3/27/2013       1:11:00PM       Prop Extract Vol: 25 mL         Prop Extract Vol: 25 mL       Prop Extract Vol: 25 mL       %         Prop Extract Vol: 25 mL       %       %         Prop Extract Vol: 25 mL	<u>Parameter</u> Gasoline Range Organics	<u>Results</u> 0.914J	.*	<u>100/01</u> 2.50	0.750	mg/Kg		
1,4-Diffuerobenzene         94.0         12113         7           4-Bromofluorobenzene         90.7         50-150         %           Stack Information         Prop Batch: VXX4691         Prop DataChine: VXX4691           Analytical Batch: VTC11381         Prop DataChine: 327/2013 .8:00:00AM         Prop DataChine: 327/2013 .8:00:00AM           Analytical Data/Time: 327/2013 1:11:00PM         Prep Extract Vol: 25 mL         Prep Extract Vol: 25 mL	Surrogates	04.0		72.440		%		
Batch Information       Prop Batch: VXX24591         Analytical Method: AK101       Prop Mathod: SW5035A         Instrument: Aglient 7890A PID/FID       Prop DateTime: 3/27/2013 6:00:00AM         Analytical DateTime: 3/27/2013 1:11:00PM       Prop Initial WL/Vol: 50 g         Prop Extract Vol: 25 mL       Prop Extract Vol: 25 mL	1,4-Difluorobenzene 4-Bromofluorobenzene	94.6 90.7		50-150		%		•
Analytical Batch: VX2X4991 Analytical Method: AK101 Instrument: Aglient 790A PID/FID Analyst: ST Analytical Date/Time: 3/27/2013 1:11:00PM Prep Extract Vol: 25 ml. Prep Ex	Batch Information	attelationen ogenetiek konstanteleten personanteleten personanteleten ogeneten og	1999-1793 (AMULIA ANU MINAN) INA	a a an ann an amala a' ann a' an ann a' ann	. Sea 1947 MER STOP SCHOOL DIE DIE DANGE MEI DIE SMORTEN	ธอสรายสมมรรณสมมรร. การเหลลิขารอง	а адат «Асо с «Саль» Колядова осн и раз воскит -	na na mangang ng kang ta mangan na mang ta tang tang man
Prep Extract Vol: 25 mL	Analytical Batch: VFC11381 Analytical Method: AK101 Instrument: Agilent 7890A P Analyst: ST	id/fil)		Prep Ba Prep Ma Prep Da Prep Ini	itch: VXX245 ethod: SW503 ite/Time: 3/23 tial Wt./Vol.:	91 35A 7/2013 8:00:00A 50 g	M	
Frint Dale: 04/03/2013 2:03:49PM	Analytical Date/Time: 3/27/2	2013 1:11:00PM	•	Prep Ex	tract Vol: 25	mL .		1 813 - 120 - 14 50 - 11 - 10 - 11 - 10 - 11 - 10 - 11 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10
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Blank Spike Sum	mary	
ELS METRONISION PERSONNELLO	Second and the second	
Blank Spike ID: L	CS for HBN 1130981 [VXX24591]	Spike Duplicate ID: LCSD for HBN 1130981
Blank Spike Lab I	D: 1142416	[VXX24591]
Date Analyzed:	03/27/2013 14:05	Spike Duplicate Lab ID: 1142417
		Matrix: Soil/Solid (dry weight)
QC for Samples:	1130981001, 1130981002, 11309810	03, 1130981007, 1130981010
Results by AK10	na e za na	

	RAMANG MADAG	C. CARLES CONTRACTOR	rener						
· · · · · · · · · · · · · · · · · · ·	Blank Spike (mg/Kg)				Spike Du	plicate ()	•		
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	Rec (%)	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Gasoline Range Organics	10.0	9.60	96	10.0	9.97	100	(60-120)	3.80	(< 20 )
Surrogates		;							·
4-Bromofluorobenzene	·	90	90	1.25	94		( 50-150 )	4.30	,
Batch Information	lean an a	H TUTHER KAPPEN IN LEADER VILLEN	adaminter havaartenden staarde is moort		W WARKE COMMENDIAL BUILD	¢ stratectorious development curry mas of 2− d	10 - 10 - 50 - 10 - 50 - 10 - 50 - 50 -	ant 1969 Noval Albert Lunger (Marten IV	and the second through a solution of the second
Analytical Batch: VFC11381				Pre	p Batch: V	XX24591	•		
Analytical Method: AK101				Pre	p Method:	SW5035A		•	

Instrument: Agilent 7890A PID/FID Analyst: ST Prep Batch: VA24591 Prep Method: SW5035A Prep Date/Time: 03/27/2013 08:00 Spike Init Wt./Vol.: 10.0 mg/Kg Extract Vol: 25 mL Dupe Init Wt./Vol.: 10.0 mg/Kg Extract Vol: 25 mL

Print Date: 04/03/2013 2:03:50PM

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	Blank ID: MB for HBN 1426459 Blank Lab ID: 1142344	[XXX/28830]	z	Matrix:	Soil/Solid (dry w	eight)	•	
	QC for Samples: 1130981001, 1130981002, 113098	1003, 1130981004, 1130	981005,	1130981006,	1130981007, 1130	981008, 1130	981009	
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	Results by AK102	y namen ministerinten er första störta som	NAME OF A DESCRIPTION OF A	i dec antines dec de 20.0 i de la contra de la	annan mar an	n de maner e commense de la competente de la competencia de la competencia de la competencia de la competencia	NACOLOGIA MAGAMAGANAD MARAN	No. IN COLUMN CONTRACTOR OF
	<u>Parametor</u> Diesel Range Organics	<u>Results</u> 12.4U		<u>LOQ/CL</u> 20.0	6,20	<u>Units</u> mg/Kg	•	
	Surrogates 5a Androstane	80.4		60-120	• • •	%		
		ranafarnandada analissa sultaka saltaka saltakan saltakan sa ta'u uning 200 salta 200 salta 200 salta	a a constant lands in the	alan da ku da k	an a	. 2	an gananan si mina waliw	
	Analytical Batch: XFC10848 Analytical Method: AK102 Instrument: HP 7890A FIL	) SV E F		Prep Batc Prep Meth Prep Date Prep Initia	h: XXX28830 hod: SW3550C /Time: 3/29/2013	11:20: <b>0</b> 0AM	• .	
	Analytical Date/Time: 4/1/2013	11:46:00AM		Prep Extra	act Vol: 1 mL			
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Blank Spike Summary	itali e i cologène ne i n	· · · · · · · · · · · · · · · · · · ·		(ninising and and and		*****		angka wa 1999 na kata kata kata kata kata kata kata k	<ul> <li>Methods and an and a second sec</li></ul>
Blank Spike ID: LCS for H Blank Spike Lab ID: 11423 Date Analyzed: 04/01/20	BN 1130981 145 13 12:07	[XXX2883	0]	Sp [XX Sp Ma	ike Duplica (X28830] ike Duplica trix: Soil/S	ite ID: LCS ite Lab ID: iolid (dry we	D for HBN 1 1142346 eight)	130981	
QC for Samples: 11309 11309	81001, 11309 81008, 11309	81002, 1130 81009	0981003, 11:	30981004,	113098100	5, 11309810	006, 1130981	007,	
Results by AK102	9499(1.)490.46(249)(95.4 mpt 2) - Ant prime and	Mandel Marana and a second	an tanan anta Interneting and and	OTHER DESCRIPTION OF THE OWNER		e Suecon Survey and a state of the state of the		and the second second second second second	19 19 19 19 19 19 19 19 19 19 19 19 19 1
	E	Blank Spike	(mg/Kg)		Spike Du	olicate ()			
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	Rec (%)	CL	<u>RPD (%)</u>	RPD CL
Diesel Range Organics	167	149	89	167	145 .	87	( 75-125 )	3.10	(< 20)
Surrogates					,				
5a Androstane		106	106	3.33	102		( 60-120 )	3,30	
Batch Information	an a	STATE AND ADDRESS	anantan berdi kasar menakuru kasar danga ing	a contra de cuito calendadade	ulagi amad sa kacamata karang sa sa sa sa sa sa sa	ngan mananan menangkan seri darangkan	en er man som	an a	THE REPORT OF SAME AND A
Analytical Batch: XFC1084 Analytical Method: AK102 Instrument: HP 7890A Analyst: EAB	3 FID SV E F	·	and a standard of the distance of the second	Pre Pre Pre Spli Dup	p Batch: XX p Method: 4 p Date/Time ke Init Wt./V pe Init Wt./V	O(28830 SW3550C e: 03/29/201 'ol.: 167 mg ol.: 167 mg/	3 11:20 /Kg Extract /Kg Extract \	Vol: 1 mL /ol: 1 mL	
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ank ID: MB for HBN 1426459 [XXX/28830] ank Lab ID: 1142344	Matrix: Soil/Solid (dry welght)	
C for Samples: 30981001, 1130981002, 1130981003, 1130981004, 11309810	005, 1130981006, 1130981007, 1130981008	3, 1130981009
esults by AK103		NONEXTLATION CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR
arameter Results	LOQ/CL DL Unit 20.0 6.20 mg/l	<u>s</u> Kg
		· .
Triacontane-d62 99	60-120 %	
	นส่งหลางๆ และ งาม ของพละสารสอบสารและสาราวารสาร ครองคนไทรวิทธิสารที่สุดไหร้องที่สุดไหร้อง เอนตรรรม วิทธิน 14 และสา	, " Man Karanan a karana ta karana ta karana ka
Analytical Batch: XFC10848 Analytical Method: AK103 Instrument: HP 7890A FID SV E F Analyst: EAB Analytical Date/Time: 4/1/2013 11:46:00AM	Prep Batch: XXX28830 Prep Method: SW3550C Prep Date/Time: 3/29/2013 11:20: Prep Initial Wt./Vol.: 30 g Prep Extract Vol: 1 mL	00AM
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Blank Spike ID: LCS for HBN 1130981 [XXX28830] Blank Spike Lab ID: 1142345 Date Analyzed: 04/01/2013 12:07				Sp [X Sp Ma	ike Duplic XX28830] ike Duplic itrix: Soil/	ate ID: LC: ate Lab ID: Solid (dry w	3D for HBN 1142346 relght)	1130981	
QC for Samples: 11309 11309	81001, 11309 81008, 11309	8 <b>1</b> 002, 1130 31009	981003, 11	30981004	, 11309810	05, 1130981	006, 1130981	1007,	
Results by AK103	nan ka kanan kanan kanan karing karang kanan kanan karang	arionaño mutanzado derezizar en p				en e			
	E	Blank Spike	unal) (mg/Kg)		Spike Du	plicate ()	na de la constanta de la const		CONTRACT OF CONTRACT OF CONTRACT OF CONTRACT
Parameter	Spike	<u>Result</u>	<u>Rec (%)</u>	<u>Spike</u>	Result	Rec (%)	CL	RPD (%)	RPD CI
Residual Range Organics	167	175	105	167	169	101	(60-120)	4.00	(< 20)
Surrogates									•
n-Triacontane-d62		102	102	3.33	96.1		( 60-120 )	5.50	÷.
Batch Information	and the second second second second second	THE R. P. LEWIS CO., LANSING MICH. 494 (2012)	the state of the	A sharefuter tarif and strongs and	t ta	de hanne merenden som en star der som som	ny daman kating salatan palatan salata	4. not an open soft and a share days not not be	en ander andere ander ander andere
Analytical Batch: XFC10848 Analytical Method: AK103 Instrument: HP 7890A Analyst: EAB	FID SV E F	•		Pre Pre Pre Spli Dup	p Batch: X p Method: p Date/Tim ke Init Wt./V ie Init Wt./V	XX28830 SW3550C e: 03/29/201 /ol.: 167 mg /ol.: 167 mg	3 11:20 /Kg Extract /Kg Extract \	Vol: 1 mL Vol: 1 mL	• •

Print Date: 04/03/2013 2:03:52PM

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## SAMPLE RECEIPT FORM



Pariant Chitaria			
Were supported v containtent? Nate # 9 location if and it is	Condition:	Comments/Action Taken:	•
COC accompanied samples?	Yes No NA		
Temperature blank complicate (i.e. 0. (90 - 0	A CAR NO N/A		_
* Notes Execution according for a life in a second	Yes NO/N/A	Client is ox with temperature,	
Cooler ID:		alease around with moralusis	
Cooler ID: $(\underline{u}, \underline{v}, \underline{v})$ W/ Inerm. ID:		picke protect mine and prot	
Cooler ID:	1	(W/ B/19/2013	
Cooler ID:		J'L IIII	•
Cooler ID:			
Note: If non-compiliant, use form FS-0029 to document affacted samples (on choice)			•
If samples are received without a temperature blank, the "cooler			
temperature" will be documented in lieu of the temperature blank &			
"COOLER TEMP" will be noted to the right. In cases where neither a		· ·	
temp blank nor cooler temp can be obtained, note "ambient" or "chilled."			
If temperature(s) <0°C, were all sample containers ice free?	Yes No (N/A)		
Delivery method (specify all that apply); (Client)	Note ABN/		
USPS Alert Courier C&D Delivery AK Air	tracking #		
Lynden Carlile ERA PenAir	Dec Attacked		
FedEx UPS NAC Other:			
$\rightarrow$ For WO# with airbills, was the WO# & airbill	OF IN/A		
info recorded in the Front Counter eLog?	Yes No N/A		
$\rightarrow$ For samples received with payment, note amount (\$) and	cash / check / CC	(circle one) or note:	In
→ For samples received in FBKS, ANCH staff will verify all criter	ia are reviewed.	SRF Initiated by:	5
Were samples received within hold time?	Yes No N/A		2
Note: Refer to form F-083 "Sample Guide" for hold time information.			
Do samples match COC* (i.e., sample IDs, dates/times collected)?	Yos No N/A	•	
"Note: Exemption permitted if times differ <1 hr; in that case, use times on COC. Were analyzes requested unarchigroups?	~~		
were analyses requested unanioignous?	Ver No N/A	·	
were samples in good condition (no leaks/cracks/breakage)?	CLes' No N/A	·	
Packing material used (specify all that apply): Bubble Wrap			
Separate plastic bags Vermiculite Other: 170 X.			
were all vOA vials free of headspace (i.e., bubbles $\leq 6 \text{ mm}$ )?	Yes No (N/A)		
were all soll VOAs held extracted with MeOH+BFB?	Yes No N/A		1
were proper containers (type/mass/volume/preservative*) used?	Cos' No N/A	·	
Were Trin Blanks (i.e. VOAs II. Ha) in cooler with complex?		e -	1
The manual handling (i.e., 40 CM and the manufactor of the state of th	Yes No N/A		.
For special nandling (e.g., "Mil" or foreign soils, lab filter, limited	Yes No N/A		
volume, Ker Lab), were bottles/paperwork flagged (e.g., sticker)?			
For preserved waters (other than VOA viais, LL-Mercury or	Yes No (N/A		
microbiological analyses), was pH verified and compliant?	··· · · · · · · · · · · · · · · · · ·		
II pH was adjusted, were bottles flagged (i.e., stickers)?	Yes No NA		
For RUSH/SHORT Hold Time, were COC/Bottles flagged	Yes No N/A	•	
accordingly? Was Rush/Short HT email sent, if applicable?		•	[
For SITE-SPECIFIC QC, e.g. BMS/BMSD/BDUP, were	Yes No (\/A	· · · · · · · · · · · · · · · · · · ·	
contamers / paperwork flagged accordingly?		·	
For any question answered "No," has the PM been notified and	Yes No N/A	SRF Completed by NGW	
the problem resolved (or paperwork put in their bin)?	·	PM=UN SC N/A	
was PEER REVIEW of sample numbering/labeling completed?	Yes No XIA	Peer Reviewed by: N/A	******
Additional notes (if applicable):			

Note to Client: Any "no" circled above indicates non-compliance with standard procedures and may impact data quality.

**Returned Bottles Inventory** 

Nama af						,	
name or individual returning , bottles:	Jennifer	Simmon	5		Date Received:	3-19-13	
( Cilent Name:	Shannon 32-1-1756	2 Wilson 3-001			Received by:	Justin Ne Steve Cru	uson
Project Name:	1802 KNIK	- GOOSE BAL			SGS PM:	1,010 010	
Preservative:	unpres.	H2SO4	HC	HNO3	NaOH	other	vials of McOH
HDPE/Nalgene:							
<u>1-L</u>			·····	······································		•	
500 ml		•					
<del>000-11</del> 1	<u> </u>		· .	•			
250-ml							
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Amber Glass:				BEADSONS ALL BODIES	A PAPAGE TO PARTICULAR TO		
1-I. BR							
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500-ml BR		-		••••••••••••••••••••••••••••••••••••••			
250-mi BR				,			
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120-111 DK							
- 8-oz SS			· · · · · · · · · · · · · · · · · · ·				
4-oz SS						- a lutra	
		н. 1		, ·	,	226	
4-oz w/ septa							
40-mi VOA vial							
othei							
Subtotal:						122	

~~~ The bottom of this form should be completed by the Project Manuger, who will determine how apply charges. ~~~

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Note: Returned bottles (regardless of size/pres.) are billed back at \$4/bottle unless otherwise guoted. These prices are only for bottles returned to the lab for disposal. Unused/unreturned bottles are billed separately. Please see Accounting for current order.

WO#:

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F067\_Returned\_Bottles\_Tally\_r03\_07112011 70 of 70 ιj

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Amount to Invoice Client:

SHANNON & WILSON, INC.

APPENDIX H

IMPORTANT INFORMATION ABOUT YOUR ENVIRONMENTAL SITE ASSESSMENT/EVALUATION REPORT AND IMPORTANT INFORMATION ABOUT YOUR GEOTECHNICAL/ENVIRONMENTAL REPORT

32-1-17563-001



Attachment to Report: 32-1-17563-001

| Date: | May 2013 |
|-------|--|
| Го: | Legacy, LLC. |
| Re: | Phase I and Limited Phase II ESA, 1802 Knik- |
| | Goose Bay Road, Wasilla, Alaska |

Important Information About Your Environmental Site Assessment/Evaluation Report

ENVIRONMENTAL SITE ASSESSMENTS/EVALUATIONS ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

This report was prepared to meet the needs you specified with respect to your specific site and your risk management preferences. Unless indicated otherwise, we prepared your report expressly for you and for the purposes you indicated. No one other than you should use this report for any purpose without first conferring with us. No one is authorized to use this report for any purpose other than that originally contemplated without our prior written consent.

The findings and conclusions documented in this site assessment/evaluation have been prepared for specific application to this project and have been developed in a manner consistent with that level of care and skill normally exercised by members of the environmental science profession currently practicing under similar conditions in this area. The conclusions presented are based on interpretation of information currently available to us and are made within the operational scope, budget, and schedule constraints of this project. No warranty, express or implied, is made.

OUR REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

Our environmental site assessment is based on several factors and may include (but not be limited to): reviewing public documents to chronicle site ownership for the past 30, 40, or more years; investigating the site's regulatory history to learn about permits granted or citations issued; determining prior uses of the site and those adjacent to it; reviewing available topographic and real estate maps, historical aerial photos, geologic information, and hydrologic data; reviewing readily available published information about surface and subsurface conditions; reviewing federal and state lists of known and potentially contaminated sites; evaluating the potential for naturally occurring hazards; and interviewing public officials, owners/operators, and/or adjacent owners with respect to local concerns and environmental conditions.

Except as noted within the text of the report, no sampling or quantitative laboratory testing was performed by us as part of this site assessment. Where such analyses were conducted by an outside laboratory, Shannon & Wilson relied upon the data provided and did not conduct an independent evaluation regarding the reliability of the data.

CONDITIONS CAN CHANGE.

Site conditions, both surface and subsurface, may be affected as a result of natural processes or human influence. An environmental site assessment/evaluation is based on conditions that existed at the time of the evaluation. Because so many aspects of a historical review rely on third party information, most consultants will refuse to certify (warrant) that a site is free of contaminants, as it is impossible to know with absolute certainty if such a condition exists. Contaminants may be present in areas that were not surveyed or sampled, or may migrate to areas that showed no signs of contamination at the time they were studied.

Unless your consultant indicates otherwise, your report should not be construed to represent geotechnical subsurface conditions at or adjacent to the site and does not provide sufficient information for construction-related activities. Your report also should not be used following floods, earthquakes, or other acts of nature; if the size or configuration of the site is altered; if the location of the site is modified; or if there is a change of ownership and/or use of the property.

INCIDENTAL DAMAGE MAY OCCUR DURING SAMPLING ACTIVITIES.

Incidental damage to a facility may occur during sampling activities. Asbestos and lead-based paint sampling often require destructive sampling of pipe insulation, floor tile, walls, doors, ceiling tile, roofing, and other building materials. Shannon & Wilson does not provide for paint repair. Limited repair of asbestos sample locations are provided. However, Shannon & Wilson neither warranties repairs made by our field personnel, nor are we held liable for injuries or damages as a result of those repairs. If you desire a specific form of repair, such as those provided by a licensed roofing contractor, you need to request the specific repair at the time of the proposal. The owner is responsible for repair methods that are not specified in the proposal.

READ RESPONSIBILITY CLAUSES CAREFULLY.

Environmental site assessments/evaluations are less exact than other design disciplines because they are based extensively on judgment and opinion, and there may not have been any (or very limited) investigation of actual subsurface conditions. Wholly unwarranted claims have been lodged against consultants. To limit this exposure, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses may appear in this report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

Consultants eannot accept responsibility for problems that may develop if they are not consulted after factors considered in their reports have changed, or conditions at the site have changed. Therefore, it is incumbent upon you to notify your consultant of any factors that may have changed prior to submission of the final assessment/evaluation.

An assessment/evaluation of a site helps reduce your risk, but does not eliminate it. Even the most rigorous professional assessment may fail to identify all existing conditions.

ONE OF THE OBLIGATIONS OF YOUR CONSULTANT IS TO PROTECT THE SAFETY, HEALTH, PROPERTY, AND WELFARE OF THE PUBLIC.

If our environmental site assessment/evaluation discloses the existence of conditions that may endanger the safety, health, property, or welfare of the public, we may be obligated under rules of professional conduct, statutory law, or common law to notify you and others of these conditions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland

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SHANNON & WILSON, INC. Geotechnical and Environmental Consultants

Attachment to and part of Report 31-1-17563-001

| Date: | _May 2013 | • |
|-------|--|---|
| To: | Legacy, LLC | |
| Re: | Phase I and Limited Phase II ESA, 1802 | |
| | Knik-Goose Bay Road, Wasilla, Alaska | |

Important Information About Your Geotechnical/Environmental Report

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include: the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used: (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors, which were considered in the development of the report, have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events, and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary hecause they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland

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Phase I ESA Property Owner Questionnaire

1. What is the address/location of the subject property?

No address has been assigned. It is near 1500 S Knik-Goosebay Road, Wasilla, AK 99654. The tract is located WSW of the cul de sac "East Frank Smith Way" off Knik Goosebay Road.

2. How long have you owned the subject property?

The property is owned by Valley Hospital Association dba Mat Su Health Foundation. Wasilla Area Seniors, Inc. has leased the land for development purposes. WASI anticipates MSHF will either convey title to WASI or arrange for WASI to establish a long-term lease for the purpose of development. WASI will become the eventual owner.

3. From whom was the property purchased?

MSHF purchased the parcel from Legacy LLC, which retains rights to repurchase the parcel if WASI does not complete development.

4. Please list any previous property owners that you are aware of, and include contact information if available.

We do not have records beyond ownership by Legacy LLC, yet a 2013 ESA by Sullivan & Wilson Inc. lists "Mr. Randy Harman" as owner at the time of their assessment (2013).

5. What are the main uses of the subject property?

The parcel is zoned commercial. WASI will develop it for multi-family senior housing, and for other senior services. Other parcels adjoining the subject parcel will be developed for senior housing, a senior center, and/or other commercial activities consistent with our non-profit charitable mission (Adult Day services, assisted living, maintenance and administration, etc)

6. Do you know of any previous uses for the subject property?

From views at Google maps, it appears it was used to harvest timber, or to store trucks or earth-moving equipment. It may have been intended for development which was not concluded.

7. Are you aware of any spills or hazardous materials having occurred or existing on the subject property or surrounding properties?

A 2013 Phase I and limited phase II ESA conducted by Shannon & Wilson, Inc. noted several RECs, Historical RECs, or other environmental conditions. This ESA was conducted for a large parcel (>40 acres) from which the subject parcel is to be subdivided. Therefore, not all comments in the 2013 ESA will necessarily apply to the subject parcel. RECs cited in the 2103 ESA included general vehicle/equipment maintenance conducted on the property (though not specifically identified inside the bounds of the subject parcel). The 2013 ESA mentioned surface stains likely attributable to petroleum product releases. That ESA also mentioned four 55 gallon drums inside a connex storage container. Two were empty, one contained used engine oil, and one apparently contained anti-freeze fluid. The floor of the connex was stained. The Google maps satellite photos appear to show these structures.

The 2013 ESA noted an offsite REC. An active LUST site at or near 1800 Knik-Goosebay Road. The 2013 ESA noted no onsite or offsite historical RECs.

The 2013 ESA noted several "other environmental conditions:

- Property was used at that time to store empty container, tires, etc that may constitute solid waste
- Site had an on-site septic tank and leach field
- Structures that existed at that time were serviced by above-ground heating oil containers. Other structures may have been serviced by heating oil in the past. During the Mar 4, 2013 on-site visit, no leaks from ASTs were observed.
- Wetlands are present (though not in the subject parcel)
- A burn barrel was observed near the structures.

Finally, the 2013 ESA included a limited Phase II ESA to evaluate impact to the soil. Seven bore sites (4 of which were in or near the subject parcel) were sampled. One found arsenic concentration that exceeded the most stringent ADEC Method 2 cleanup level. Generally the limited Phase II ESA did not reveal evidence of a reportable release of petroleum hydrocarbons or other hazardous substances.

8. Are you aware of any underground or aboveground storage tanks that are currently or were formerly located on the subject property?

See comments above from the 2013 ESA by Shannon & Wilson, Inc.

9. Are you aware of any environmental liens against the subject property?

No.

10. Are you aware of any fill having been brought onto the property from an offsite source? What was the source?

No

11. Are there any pits, ponds, or lagoons on the property?

No

12. Are you aware of any underground injection wells or dry wells on the property?

No. There was apparently a drinking water well according to the 2013 ESA by Shannon & Wilson, Inc.

13. Are you aware of any current or former septic systems on the property?

Yes. See comments above from the 2013 ESA by Shannon & Wilson, Inc.

14. Are you aware of any current or former water supply wells on the property?

Yes. There was apparently a drinking water well according to the 2013 ESA by Shannon & Wilson, Inc.

15. Is the property currently connected to municipal water and sewer service? If so, do you know when it was connected?

Not that we know of.

16. Is the property currently connected to natural gas? If so, do you know when it was connected?

Not that we know of.

17. Are there any subfloor hydraulic lifts on the property?

Not that we know of.

18. Are there any current or previous floor drains in the building(s)? Are they connected to the sanitary sewer system?

Not that we know of.

19. Are there any oil/water separators on the property? If so, what are they connected to? How, and how often are they cleaned?

Not that we know of.

20. Have you ever observed any staining on the grounds of the subject property? Do you know the source of the staining?

None observed by us. See 2013 ESA by Shannon & Wilson, Inc.

21. Are you aware of any AULs, such as engineering controls, land use restrictions or institutional controls that are in place at the subject property or that have been filed or recorded in a registry under federal, tribal, state or local law?

None that we know of.

22. Are there any other signs that contamination may be present at the subject property?

None observed by us. See 2013 ESA by Shannon & Wilson, Inc.

23. Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

Not applicable.

24. Do you know of others who may have knowledge of the subject property?

Mat Su Health Foundation.

Legacy LLC

I certify that the information provided above is accurate to the best of my knowledge.

Charles Foster, CEO, Wasilla Area Seniors, Inc.\_\_\_\_ Name of Property Owner/User of Report

APPRIER FORM

Signature of Property Owner/User of Report

<u>4 March 2020</u> Date

Lessee and Buyer Relationship to this property transaction (example: owner, past owner, buyer, realtor, renter, knowledgeable person, etc.)

BGES, INC.

APPENDIX D BGES PROPOSAL DATED FEBRUARY 24, 2020

BGES, INC.



Providing Environmental and Geological Consulting Services 1042 East 6<sup>th</sup> Avenue Anchorage, Alaska 99501

Anchorage, Alaska 99501 Ph: (907) 644-2900 Fax: (907) 644-2901

Eagle River Office: Ph: (907) 696-BGES (2437) www.BGESINC.com

ENVIRONMENTAL CONSULTANTS

BGES, INC.

February 24, 2020

Amanda Matson, MBA Cook Inlet Housing Authority 3510 Spenard Road, Suite 100 Anchorage, AK 99503

RE: PHASE I ENVIRONMENTAL SITE ASSESSMENT, TRACT A-2B, CENTER POINT SUBDIVISION, PHASE 4, WASILLA, ALASKA

Dear Ms. Matson:

BGES, Inc. (BGES) is pleased to present our proposal to you for providing a Phase I environmental site assessment (ESA) for the above-referenced property. BGES personnel have conducted or managed hundreds of Phase I ESAs, and likely complete more on a yearly basis than any other consulting firm in Alaska (we typically complete about 30 to 50 per year). We have developed this proposal to provide a Phase I ESA at the above-referenced property in conformance with American Society for Testing Materials (ASTM) E1527-13 guidelines and the local standard of practice. We assume that this Phase I ESA is not related to a U.S. Small Business Administration (SBA) loan. Please let us know if this is not the case.

SITE BACKGROUND

The property that is to be the subject of this Phase I ESA consists of an irregularly-shaped parcel located to the north of the intersection of South Knik-Goose Bay Road and South Fern Street; in the southern portion of Wasilla, Alaska. The legal description of the subject property is listed by the Matanuska-Susitna Borough (MSB) Property Information database as Tract A-2B, Center Point Subdivision, Phase 4. With this information in mind, we have prepared the following scope of work for this Phase I ESA.

PHASE I ESA SCOPE OF WORK

Our scope of work includes research, a site visit, and preparation of a report summarizing our findings. During the research phase of our assessment, we will contact numerous entities that may have knowledge of current and/or former site conditions. This information is typically obtained from a subset of the following sources: The Alaska Department of Natural Resources Recorder's office; the tax assessor's

Cook Inlet Housing Authority Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, AK; Phase I ESA

office; the ADEC's Contaminated Sites, Spills, and Registered Underground Storage Tank (UST) databases; the US Environmental Protection Agency's (USEPA) National Priorities List (NPL); the USEPA's Delisted NPL Sites; The USEPA's Federal List of Institutional Control Sites; the USEPA Enviromapper database; the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) database; the USEPA's CERCLIS No Further Remedial Action Planned List; the USEPA Corrective Action Detail Reports; The USEPA Region 10 Treatment, Storage, and Disposal facilities list; the USEPA Toxic Release Inventory System, Sanborn Fire Maps; The National Response Center; Polk City Directories; planning and zoning maps; water well surveys; the local electric companies; the local water and wastewater utility; ENSTAR; current and former site owners; neighboring property owners or occupants; and other persons knowledgeable about the property.

We will review historical aerial photographs depicting property conditions and showing pertinent property details, and the photographs will be described in a narrative format in the text. We will purchase up to two of these photographs that will be included as figures in the report. After this preliminary research is completed, we will visit the property and traverse the property grounds, including the interior of the onsite building. During the site visit, our field personnel will look for evidence of USTs, aboveground storage tanks, drums and other containers, stained soils, stressed vegetation, site drainage patterns, and any other evidence of potential contamination.

Upon completion of the above-described activities, we will prepare a written report of our findings. We will include an opinion of the potential for contamination on the property, both from potential on-site and off-site sources; and identify recognized environmental conditions with respect to the subject property. We will also provide recommendations for additional activities if warranted. Using the template provided by Cook Inlet Housing Authority, BGES will provide a reliance letter addressed to the investor (R4 Capital LLC) under separate cover.

EXCLUSIONS

The scope of the Phase I ESA does not include testing for soil vapor, radon, asbestos, or lead, or any other potentially hazardous substances. In addition, we have not included provisions for collecting soil or groundwater samples. These services can be performed concurrently or as follow-up activities to the Phase I ESA, as requested.

SCHEDULE & COSTS

BGES can complete the Phase I ESA and provide a written report within approximately 3 to 4 weeks from receipt of notice to proceed. We will provide verbal results to you prior to our written report, should

Cook Inlet Housing Authority Tract A-2B, Center Point Subdivision, Phase 4 Wasilla, AK; Phase I ESA

information regarding any concerns be identified. BGES proposes to complete the above-described work for a firm-fixed price of . Our fixed fee for the Phase I ESA includes all activities through submittal of our final electronic report and reliance letter.

You may indicate your agreement with this proposal, and provide notice to proceed by signing and returning via email, or fax to (907) 644-2901, this page with the authorization to proceed block below. We appreciate this opportunity to be of service and look forward to continuing to provide professional environmental consulting services to you.

Sincerely,

BGES, INC.

Brin Prato

Brian Braunstein Senior Environmental Specialist

Encl: BGES Standard Terms and Conditions

PROJECT AUTHORIZATION:

I have reviewed, and I accept this proposal; and authorize the Phase I ESA at Tract A-2B, Center Point Subdivision, Phase 4; in Wasilla, Alaska to begin.

Title/Affiliation

Date

Signature of Authorized Representative

Printed Name of Authorized Representative

Additional Considerations (if any): \_\_\_\_\_