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**Date** 22 March 2012  
**To** Robert Brock (USACE)  
**From** Sarah Belway, PE (Jacobs)  
**Cc** Joseph Malen (DPW)  
**Subject** **Former Communications Site 2010 Field Activities After-Action Report (Final)**

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This After-Action Report describes the 2010 field activities conducted at the Former Communications Site (FCS) on Fort Wainwright, Alaska (Figure 1). The 2010 fieldwork included the following tasks:

- Closure of the onsite investigation-derived waste (IDW) stockpile cell
- Investigation of contamination from leaking glycol valves
- Sampling of IDW from the DERA IDW Storage Facility

The work described in this After-Action Report was conducted in accordance with the *2007 Former Communications Site Drum and Debris Remedial Investigation Work Plan* (U.S. Army Corps of Engineers [USACE] 2007a) and the *2008 Former Communications Site Drum and Debris Remedial Investigation Work Plan* (USACE 2008).

### **Waste Stockpile Closure**

In 2007 a 7,150-square foot ADEC-compliant soil stockpile cell was constructed following the *Long Term Soil Stockpile Plan* (USACE 2007b) in order to accommodate IDW soils accumulated during remedial investigation and construction support activities. Due to increased vehicular traffic during stockpile maintenance and loadout activities, a modification was made to the plan to support the assumed increase in weight and movement. Approximately 12 inches of gravel fill material was placed over the bottom liner for protection.

Between 2007 and 2010, the stockpile cell was used for temporary storage of IDW soil potentially contaminated with diesel-range organics (DRO), lead, and dichlorodiphenyltrichloroethane (DDT). These soils had been sampled for waste characterization and stockpiled between 2007 and 2009. The sources of the stockpiles are summarized in the *2007/2008/2009 Former Communications Site Drum and Debris and PCB Investigation Report* (USACE 2011b).

At the end of 2009 field activities, 51 Super Sacks<sup>®</sup> containing DDT-contaminated soil from north of Building 19 and three Super Sacks<sup>®</sup> containing DRO-contaminated soil from underneath Building 49 remained in the stockpile cell. The Super Sacks<sup>®</sup> containing DDT-contaminated IDW soil were removed by Emerald Services, Inc. in September 2010 and transported to a treatment, storage and disposal facility in Arlington, Oregon as described in the *DDT Hotspot Investigation After-Action Report* (USACE 2011a). The Super Sacks<sup>®</sup> containing soil from Building 49 were sampled in 2009 and delivered to Organic Incineration Technologies (OIT) as described in the *2007/2008/2009 Former Communications Site Drum and Debris and PCB Investigation Report* (USACE 2011b).

On 8 August 2010, Jacobs collected five analytical samples from the fill material on top of the base liner of the stockpile. Samples were collected in heavily trafficked locations as well as below the former locations of the Super Sacks<sup>®</sup> and stockpiled contaminated soil.

In October 2010, the stockpile cell was completely removed and the area was graded. In accordance with the *2007 Former Communications Site Drum and Debris Remedial Investigation Work Plan* (USACE 2007a), Jacobs collected five post-construction stockpile samples after the cell and liner had been removed.

#### Sampling Results from Stockpile Closure

The five analytical soil samples collected in October 2010 (10FWA-TAKU-SO-W01 through 10FWA-TAKU-SO-W05) were analyzed for gasoline-range organics (GRO), DRO, residual-range organics (RRO), volatile organic compounds (VOC), semivolatile organic compounds (SVOC), herbicides, pesticides, and Resource Conservation and Recovery Act (RCRA) metals. Soil samples were also analyzed for reactivity, pH, and flash point. Results indicated that the soil was non-reactive with a neutral pH and presented no flash point concerns.

Results for sample 10FWA-TAKU-SO-W02 indicated levels of DRO (485 mg/kg) exceeding the Alaska Department of Environmental Conservation (ADEC) Method Two migration to groundwater cleanup criteria of 250 mg/kg. A total of 68 tons of soil from this grid and the surrounding area were removed and sent to OIT for thermal treatment. All other sample results were below ADEC cleanup criteria.

Laboratory results of the five soil samples (10FCSRI-SO-PC01 through 10FCSRI-SO-PC05) collected after the cell and liner had been removed indicated all sample results were below regulatory criteria.

### Leaking Glycol Valve Investigation

In July 2010, routine inspections at the FCS of the glycol line valves located in manholes with dirt floors were conducted by American Mechanical, Inc. The inspections indicated that some valves were leaking and glycol-contaminated soil could be present in the bottom of the manholes. Between 16 July and 10 August 2010, Jacobs used a vacuum truck to remove potentially contaminated soil from the manholes onsite. Approximately 45 cubic yards of soil were removed, and a single sample was sent to the laboratory to characterize the removed soil for disposal.

### Sampling Results from Leaking Glycol Valve Investigation

Waste soil sample 10FWA-TAKU-SO-W06 collected from the glycol-contaminated soil was analyzed for GRO, DRO, RRO, ignitability, pesticides, herbicides, polychlorinated biphenyls (PCB), VOCs, SVOCs, explosives, RCRA metals, propylene glycol, and ethylene glycol. All results were below cleanup levels and no glycol was present.

### IDW Characterization at the DERA IDW Storage Facility

Environmental Compliance Consultants, Inc. (ECC) was responsible for disposing of the IDW stored in the DERA IDW Storage Facility, but indicated that they did not have sufficient data to characterize it for disposal. In August 2010, the USACE directed Jacobs to collect samples from IDW stored in the DERA IDW Storage Facility on Fort Wainwright in order to provide the necessary data. The IDW had been generated during previous investigation efforts and was the last remaining IDW from the remedial investigation. Discussion of the generation of the IDW and initial sampling efforts is discussed in the *2007/2008/2009 Former Communications Site Drum and Debris and PCB Investigation Report* (USACE 2011b). Specifically:

- Building 15 IDW consisted of containerized hydraulic cylinders, metal debris with oily residue, and a small amount of soil removed during the 2008 investigation effort.
- Building 22 IDW consisted of a crushed drum with residual oil and small amount of surrounding soil removed during the 2008 investigation effort. One soil sample had been collected previously (08FCS-BLD22-OP2).
- Building 49 IDW consisted of drums with a small amount of water with fuel sheen removed during the 2009 investigation effort. One sample had been collected previously (09-FCS-WW-B49-DR01).

Sampling conducted in 2010 consisted of one IDW water characterization sample from Building 49, three IDW soil characterization samples collected from drums from Building 15, and one IDW soil characterization sample from Building 22.

### Sampling Results from DERA IDW Characterization

IDW water sample 09FCSB49-WW-W01, collected from Building 49, was analyzed for GRO, DRO, RRO, toxicity characteristic leaching procedure (TCLP) RCRA metals, TCLP pesticides, PCBs, TCLP herbicides, TCLP VOCs, and TCLP SVOCs. Results indicated high levels of DRO (38.2 mg/L) and RRO (44.3 mg/L) within the wastewater.

IDW soil sample 08FCS-BLDG22-2-SO-W01 collected from Building 22 IDW was analyzed for RCRA metals and PCBs. Results indicated PCB contamination in the soil at a concentration of 4.78 mg/kg.

Three IDW soil samples (08FCSBLDG15-03-SO-W01 through 08FCSBLDG15-04-SO-W03) collected from Building 15 were analyzed for GRO, DRO, RRO, RCRA metals, pesticides, PCBs, herbicides, VOCs, and SVOCs. Results indicated the presence of lead within the soil in two samples (08FCSBLDG15-01-SO-W02 and 08FCSBLDG15-04-SO-W03) with lead concentrations as high as 104,000 mg/kg. Results from the TCLP indicated lead concentrations of 99.1 mg/L and 0.056 mg/L, respectively.

### **Data Quality Analysis**

Jacobs completed the ADEC laboratory data review checklists (Attachment 1) in order to assess the overall data quality and usability. Data quality was evaluated against the following regulations and requirements: U.S. Department of Defense (DoD) *Quality Systems Manual (QSM) for Environmental Laboratories*, version 4.1 (DoD 2009); analytical methods described by ADEC and the U.S. Environmental Protection Agency (EPA) (ADEC 2008; EPA 1996); and laboratory limits. All analytical data and associated documentation is presented in Attachment 1. Complete laboratory data is provided separately on the CD provided with this After-Action Report.

### **Disposal of IDW from the Stockpile Cell, Glycol Valve Investigation, and DERA IDW Storage Facility**

The IDW taken from the sites described in this After-Action Report was disposed of as follows:

- DRO-contaminated material from the stockpile cell and Super Sacks<sup>®</sup> from the Building 49 excavated materials previously stored at the DERA IDW Storage Facility were transported to OIT.
- Sample results and IDW from Buildings 15, 22, and 49, previously stored in the DERA IDW Storage Facility, were transferred to the Army and disposed of through ECC.
- The 45 cubic yards of soil removed from the manholes following the glycol valve investigation were transported to the Fort Wainwright landfill in September 2010.

All IDW disposal documentation is included in Attachment 2. The liners from the cell, expended sampling materials, and personal protective equipment (i.e. gloves, spoons, paper towels, etc) were disposed of at the Fairbanks North Star Borough landfill.

### References

- ADEC (Alaska Department of Environmental Conservation). 2008 (October). *Oil and Other Hazardous Pollution Control Regulations—Discharge Reporting, Cleanup, and Disposal of Oil and Other Hazardous Substances*. Title 18 Alaska Administrative Code, Section 75.
- DoD (U.S. Department of Defense). 2009. *Department of Defense Quality Systems Manual for Environmental Laboratories*. DoD Environmental Quality Workgroup, Department of the Navy, Lead Service. Version 4.1.
- EPA (U.S. Environmental Protection Agency). 2010 (May). *Regional Screening Levels*. <http://www.epa.gov/region9/superfund/prg>. Accessed May 2010.
- EPA. 1996 (September). *Test Methods for Evaluating Solid Waste*. Final Update III, SW-846.
- McCoy (McCoy and Associates). 2009. *McCoy's RCRA Reference*. Table 1, "Maximum Concentration of Contaminants for the Toxicity Characteristic."
- USACE (U.S. Army Corps of Engineers, Alaska District). 2011a (August). *DDT Hotspot Investigation After-Action Report*. Final. Prepared by Jacobs Engineering Group Inc.
- USACE. 2011b (January). *2007/2008/2009 Former Communications Site Drum and Debris and PCB Investigation Report*. Fort Wainwright, Alaska. Prepared by Jacobs Engineering Group Inc.
- USACE. 2008 (August). *2008 Former Communications Site Drum and Debris Remedial Investigation Work Plan*. Final. Prepared by Jacobs Engineering Group Inc.
- USACE. 2007a. *2007 Former Communications Site Drum and Debris Remedial Investigation Work Plan*. Final. Prepared by Jacobs Engineering Group Inc.
- USACE, 2007b. *Long Term Stockpile Plan: FCS RI/FS*. Final. Prepared by Jacobs Engineering Group Inc.

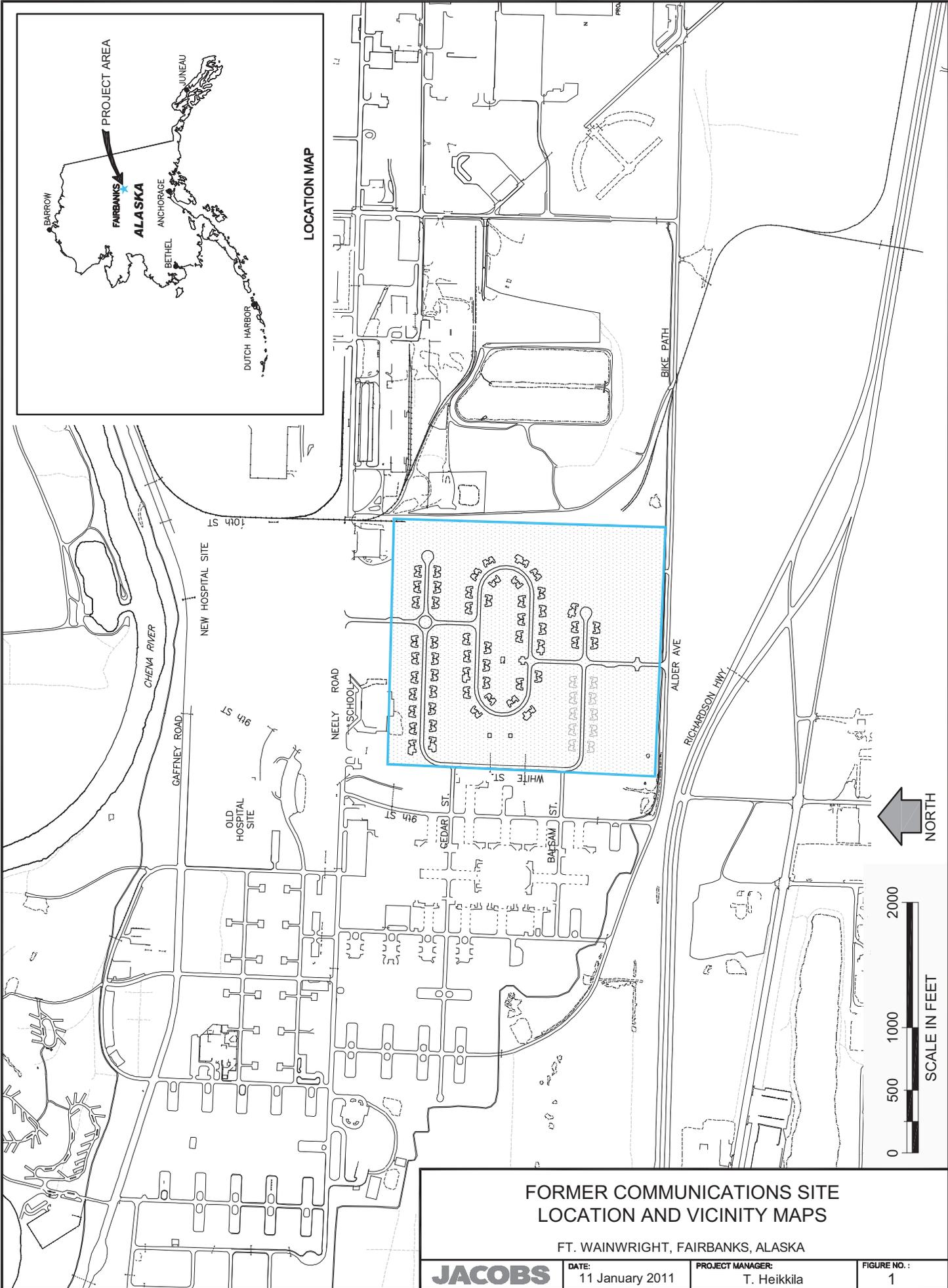
### Figure

Figure 1          Location Map

### Attachments

- Attachment 1    Photograph Log
- Attachment 2    Analytical Data and Laboratory Documentation
- Attachment 3    Waste Documentation
- Attachment 4    Field Logbook
- Attachment 5    Responses to Comments

**FIGURE**



**FORMER COMMUNICATIONS SITE  
LOCATION AND VICINITY MAPS**

FT. WAINWRIGHT, FAIRBANKS, ALASKA

<b>JACOBS</b>	DATE:	PROJECT MANAGER:	FIGURE NO.:
	11 January 2011	T. Heikkila	1

**ATTACHMENT 1**  
**Photograph Log**

2010 Field Activities Report, Fort Wainwright, Alaska



**Photo No. 1**

Collecting samples of protective gravel layer covering the bottom liner of the soil stockpile cell.  
View facing southwest.



**Photo No. 2**

Crushed drum with oily residue stored in the DERA IDW Storage Facility.

2010 Field Activities Report, Fort Wainwright, Alaska



**Photo No. 3**

Metal debris with oily residue stored in the DERA IDW Storage Facility.



**Photo No. 4**

Removing the soil stockpile cell. View facing east



**Photo No. 5**

Preparing to remove the sediment from the glycol manhole using a vacuum truck.  
View facing west.

**ATTACHMENT 2**  
**Analytical Data and Laboratory Documentation**

**Exhibit 2A**  
**Sample Summary and Data Tables**

2010 Fort Wainwright, Alaska  
Building 49/Stockpile Waste Sample Summary

Project ID	CoC Number	Cooler ID	Laboratory	Sample ID	Location ID	Date	Time	Sampler	Quantity	Container	Volume	Preservation	Matrix	Method	QC	TAT
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	5	Amber	1L	4°C	WW	SW8720 TCLP; SW8081 TCLP; SW8082; SW8151 TCLP		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	1	Amber	1L	4°C, HCL	WW	AK102/103		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	1	Poly	500mL	4°C	WW	SW6020/7471 RCRA TCLP		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	1	Poly	250mL	4°C	WW	Ignitability/Reactivity		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	3	VOA	40mL	4°C	WW	SW8260 TCLP		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-WW-W01	B49-POL	9/30/2010	1540	JY/ADE	3	VOA	40mL	4°C, HCL	WW	AK101		7 Day
05F50701	2010FWATaku078	Thing 2	SGS	09FCSB49-TB02	TB-02	9/30/2010	800	JY/ADE	3	VOA	40mL	4°C, HCL	WW	AK101	TB	7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W01	TAKU-W01	8/10/2010	803	AC/MD	2	Amber	8 oz	4°C	SO	AK102/103, SW8270, SW8081, SW6020/7471, SW8082, SW846, SW1020A		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W01	TAKU-W01	8/10/2010	803	AC/MD	1	Amber	4 oz	4°C	SO	SW8151		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W01	TAKU-W01	8/10/2010	803	AC/MD	1	Amber	4 oz	4°C, MeOH	SO	AK101, SW8260		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W02	TAKU-W02	8/10/2010	815	AC/MD	4	Amber	8 oz	4°C	SO	AK102/103, SW8270, SW8081, SW6020/7471, SW8082, SW846, SW1020A	MS/D	7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W02	TAKU-W02	8/10/2010	815	AC/MD	2	Amber	4 oz	4°C	SO	SW8151	MS/D	7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W02	TAKU-W02	8/10/2010	815	AC/MD	1	Amber	4 oz	4°C, MeOH	SO	AK101, SW8260	MS/D	7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W03	TAKU-W03	8/10/2010	834	AC/MD	2	Amber	8 oz	4°C	SO	AK102/103, SW8270, SW8081, SW6020/7471, SW8082, SW846, SW1020A		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W03	TAKU-W03	8/10/2010	834	AC/MD	1	Amber	4 oz	4°C	SO	SW8151		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W03	TAKU-W03	8/10/2010	834	AC/MD	1	Amber	4 oz	4°C, MeOH	SO	AK101, SW8260		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W04	TAKU-W04	8/10/2010	1501	AC/MD	2	Amber	8 oz	4°C	SO	AK102/103, SW8270, SW8081, SW6020/7471, SW8082, SW846, SW1020A		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W04	TAKU-W04	8/10/2010	1501	AC/MD	1	Amber	4 oz	4°C	SO	SW8151		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W04	TAKU-W04	8/10/2010	1501	AC/MD	1	Amber	4 oz	4°C, MeOH	SO	AK101, SW8260		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W05	TAKU-W05	8/10/2010	1523	AC/MD	2	Amber	8 oz	4°C	SO	AK102/103, SW8270, SW8081, SW6020/7471, SW8082, SW846, SW1020A		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W05	TAKU-W05	8/10/2010	1523	AC/MD	1	Amber	4 oz	4°C	SO	SW8151		7 Day
05F50701	2010FWATaku075	3FER	SGS	10FWA-TAKU-SO-W05	TAKU-W05	8/10/2010	1523	AC/MD	1	Amber	4 oz	4°C, MeOH	SO	AK101, SW8260		7 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC01	PC01-NW	10/13/2010	1155	JY	1	Amber	8 oz	4°C	SO	AK102/103; SW8270; SW8081; SW8082; SW6020/7471		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC01	PC01-NW	10/13/2010	1155	JY	1	Amber	4 oz	4°C	SO	SW8151		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC01	PC01-NW	10/13/2010	1155	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC02	PC02-NE	10/13/2010	1200	JY	1	Amber	8 oz	4°C	SO	AK102/103; SW8270; SW8081; SW8082; SW6020/7471		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC02	PC02-NE	10/13/2010	1200	JY	1	Amber	4 oz	4°C	SO	SW8151		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC02	PC02-NE	10/13/2010	1200	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC03	PC03-CTR	10/13/2010	1205	JY	1	Amber	8 oz	4°C	SO	AK102/103; SW8270; SW8081; SW8082; SW6020/7471		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC03	PC03-CTR	10/13/2010	1205	JY	1	Amber	4 oz	4°C	SO	SW8151		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC03	PC03-CTR	10/13/2010	1205	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC04	PC04-SE	10/13/2010	1210	JY	1	Amber	8 oz	4°C	SO	AK102/103; SW8270; SW8081; SW8082; SW6020/7471		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC04	PC04-SE	10/13/2010	1210	JY	1	Amber	4 oz	4°C	SO	SW8151		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC04	PC04-SE	10/13/2010	1210	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260		30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC05	PC05-SW	10/13/2010	1215	JY	2	Amber	8 oz	4°C	SO	AK102/103; SW8270; SW8081; SW8082; SW6020/7471	MS/D	30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC05	PC05-SW	10/13/2010	1215	JY	1	Amber	4 oz	4°C	SO	SW8151	MS/D	30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-SO-PC05	PC05-SW	10/13/2010	1215	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260	MS/D	30 Day
05F50701	2010FWATaku083	Quali	SGS	10FCSRI-TB01	TB-01	10/13/2010	800	JY	1	Amber	4 oz	4°C, MeOH	SO	AK101; SW8260	TB	30 Day

2010 Taku Gardens Waste -  
Building 49, Building 15, and Building 22 Sample Summary

Project ID	CoC Number	Cooler ID	Laboratory	SDG	Sample ID	Location ID	Date	Time	Sampler	Quantity	Container	Volume	Preservation	Matrix	Method	QC	TAT	Notes	
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-03-SO-W01	BLDG15-03	9/30/2010	14:50	JY/ADE	1	Amber	8 oz	4C	SO	AK102/103; SW8270; SW8082; SW6020/7471 RCRA; SW8081; SW8151		7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-03-SO-W01	BLDG15-03	9/30/2010	14:50	JY/ADE	1	Amber	4 oz	4C	SO	SW8151		7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-03-SO-W01	BLDG15-03	9/30/2010	14:50	JY/ADE	1	Amber	4 oz	4C MeOH	SO	AK101/SW8260		7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-01-SO-W02	BLDG15-01	9/30/2010	15:00	JY/ADE	1	Amber	8 oz	4C	SO	AK102/103; SW8270; SW8082; SW6020/7471 RCRA		7 Day	Added TCLP Pb on 10/19/10	
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-01-SO-W02	BLDG15-01	9/30/2010	15:00	JY/ADE	1	Amber	4 oz	4C	SO	SW8151		7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-01-SO-W02	BLDG15-01	9/30/2010	15:00	JY/ADE	1	Amber	4 oz	4C MeOH	SO	AK101/SW8260		7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-04-SO-W03	BLDG15-04	9/30/2010	15:05	JY/ADE	2	Amber	8 oz	4C	SO	AK102/103; SW8270; SW8082; SW6020/7471 RCRA	MS/ D	7 Day	Added TCLP Pb on 10/19/10	
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-04-SO-W03	BLDG15-04	9/30/2010	15:05	JY/ADE	2	Amber	4 oz	4C	SO	SW8151	MS/	7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-04-SO-W03	BLDG15-04	9/30/2010	15:05	JY/ADE	1	Amber	4 oz	4C MeOH	SO	AK101/SW8260	MS/	7 Day		
05F50701	2010FWATaku077	Thing 1	SGS	1106788	08FCSBLDG15-TB01	TB01	9/30/2010	8:00	JY/ADE	1	Amber	4 oz	4C MeOH	SO	AK101/SW8260	TB	7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	5	Amber	1L	4C	WW	SW8270 TCLP; SW8081 TCLP SW8082; SW8151 TCLP		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	1	Amber	1L	4C_HCL	WW	AK102/103		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	1	Poly	500mL	4C	WW	SW6020/7471 RCRA TCLP		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	1	Poly	250mL	4C	WW	Ignitability/Reacti		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	3	VOA	40mL	4C	WW	SW8260 TCLP		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-WW-W01	B49-POL	9/30/2010	15:40	JY/ADE	3	VOA	40mL	4C_HCL	WW	AK101		7 Day		
05F50701	2010FWATaku078	Thing 2	SGS	1106788	09FCSB49-TB02	TB-02	9/30/2010	8:00	JY/ADE	3	VOA	40mL	4C_HCL	WW	AK101		TB	7 Day	
05F50701	2010FWATaku082	The Forgotten	SGS	1106833	08FCS-BLDG22-2-SO-W01	BLDG22-2	8/26/2010	1600	SH/KH	1	Amber	8oz	4°C	SO	SW8082A; SW6020A;		14 Day	Transformer	
05F50701	2010FWATaku084	Extra Volume	SGS	1106788	08FCSBLDG15-01-SO-W02	BLDG15-01	10/18/2010	9:00	JY/MD	1	Amber	8 oz	4C	SO	SW6020 TCLP Lead only		7 Day	Extra Volume for TCLP	

2010 Stockpile and Manhole Waste Results

				Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TB-01			
				Sample ID	10FCSRI-SO-PC01	10FCSRI-SO-PC02	10FCSRI-SO-PC03	10FCSRI-SO-PC04	10FCSRI-SO-PC05	10FCSRI-TB01			
				Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1106839008			
				Matrix	SO	SO	SO	SO	SO	SO			
				Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010			
				Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA			
				QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank			
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>						
A2540G	Total Solids		Percent					84	86.5	83.4	95.4	88.8	-
AK101	Gasoline Range Organics		mg/kg	300				ND [5.77]	ND [4.13]	ND [5.29]	ND [3.21]	ND [3.59]	ND [2.51]
AK102	Diesel Range Organics		mg/kg	250				ND [23.7]	29.3 [22.9]	ND [24]	ND [20.9]	8.8 [22.2] J	-
AK103	Residual Range Organics		mg/kg	10000*				60.7 [23.7]	168 [22.9]	60.2 [24]	17 [20.9] J	50.5 [22.2]	-
SW1020A	Ignitability		°C					-	-	-	-	-	-
SW6020	Arsenic	7440-38-2	mg/kg	3.9	0.29		100	11.1 [1.15]	9.78 [1.07]	10.7 [1.15]	3.67 [1.02]	4.55 [1.11]	-
SW6020	Barium	7440-39-3	mg/kg	1100	82		2000	110 [0.346] JM+	113 [0.321] JM+	117 [0.346] JM+	83.8 [0.306] JM+	70.5 [0.332] JM+	-
SW6020	Cadmium	7440-43-9	mg/kg	5	0.38		20	0.22 [0.231] J	0.231 [0.214]	0.164 [0.23] J	0.088 [0.204] J	0.086 [0.221] J	-
SW6020	Chromium	7440-47-3	mg/kg	25	180000		100	17.7 [0.461]	17.3 [0.429]	19.6 [0.461]	11.4 [0.408]	11.8 [0.443]	-
SW6020	Lead	7439-92-1	mg/kg	400	14		100	9.63 [0.231]	11.9 [0.214]	7.42 [0.23]	4.26 [0.204]	5.32 [0.221]	-
SW6020	Selenium	7782-49-2	mg/kg	3.4	0.26		20	0.409 [0.576] J	0.299 [0.536] J	0.28 [0.576] J	ND [0.51]	ND [0.553]	-
SW6020	Silver	7440-22-4	mg/kg	11.2		1.6	100	0.1 [0.115] J	0.0772 [0.107] J	0.111 [0.115] J	ND [0.102]	0.0419 [0.111] J	-
SW7471B	Mercury	7439-97-6	mg/kg	1.4	0.1		4	ND [0.0472]	ND [0.0457]	0.0801 [0.0466]	ND [0.0406]	ND [0.0443]	-
SW8015	Ethylene glycol	107-21-1	mg/kg	190		15		-	-	-	-	-	-
SW8015	Propylene glycol	57-55-6	mg/kg					-	-	-	-	-	-
SW8081B	4,4'-DDD	72-54-8	mg/kg	7.2		0.066		0.0029 [0.0024]	0.008 [0.0023]	0.0089 [0.0024]	0.0008 [0.0021] J	0.0032 [0.0022]	-
SW8081B	4,4'-DDE	72-55-9	mg/kg	5.1		0.047		0.0151 [0.0024]	0.0034 [0.0023]	0.0053 [0.0024]	ND [0.0021]	0.0024 [0.0022]	-
SW8081B	4,4'-DDT	50-29-3	mg/kg	7.3		0.067		0.0201 [0.0119]	0.0197 [0.0114]	0.0111 [0.0119] J	0.0061 [0.0106] J	0.0089 [0.011] J	-
SW8081B	Aldrin	309-00-2	mg/kg	0.07				ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	alpha-BHC	319-84-6	mg/kg	0.0064		0.000062		ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	alpha-Chlordane	5103-71-9	mg/kg	2.3			0.6	ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	beta-BHC	319-85-7	mg/kg	0.022		0.00022		ND [0.0089]	ND [0.0086]	ND [0.0089]	ND [0.0079]	ND [0.0083]	-
SW8081B	Chlordane	12789-03-6	mg/kg					ND [0.0593]	ND [0.057]	ND [0.0593]	ND [0.0529]	ND [0.0552]	-
SW8081B	delta-BHC	319-86-8	mg/kg					ND [0.0089]	ND [0.0086]	ND [0.0089]	ND [0.0079]	ND [0.0083]	-
SW8081B	Dieldrin	60-57-1	mg/kg	0.0076		0.00017		ND [0.0024]	ND [0.0023]	ND [0.0024]	ND [0.0021]	ND [0.0022]	-
SW8081B	Endosulfan I	959-98-8	mg/kg					ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	Endosulfan II	33213-65-9	mg/kg					ND [0.0024]	ND [0.0023]	ND [0.0024]	ND [0.0021]	ND [0.0022]	-
SW8081B	Endosulfan sulfate	1031-07-8	mg/kg				0.4	ND [0.0119]	ND [0.0114]	ND [0.0119]	ND [0.0106]	ND [0.011]	-
SW8081B	Endrin	72-20-8	mg/kg	0.29	0.081			ND [0.0024]	ND [0.0023]	ND [0.0024]	ND [0.0021]	ND [0.0022]	-
SW8081B	Endrin aldehyde	7421-93-4	mg/kg					ND [0.0119]	ND [0.0114]	ND [0.0119]	ND [0.0106]	ND [0.011]	-
SW8081B	Endrin ketone	53494-70-5	mg/kg					ND [0.0296]	ND [0.0285]	ND [0.0296]	ND [0.0265]	ND [0.0276]	-
SW8081B	gamma-BHC (Lindane)	58-89-9	mg/kg	0.0095	0.0012		8	ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	gamma-Chlordane	5103-74-2	mg/kg	2.3			0.6	ND [0.0018]	ND [0.0017]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	Heptachlor	76-44-8	mg/kg	0.28	0.033		0.16	ND [0.0024]	ND [0.0023]	ND [0.0024]	ND [0.0021]	ND [0.0022]	-
SW8081B	Heptachlor epoxide	1024-57-3	mg/kg	0.014	0.0041		0.16	ND [0.0024]	ND [0.0023]	ND [0.0024]	ND [0.0021]	ND [0.0022]	-
SW8081B	Methoxychlor	72-43-5	mg/kg	23	2.2		200	ND [0.0119]	ND [0.0114]	ND [0.0119]	ND [0.0106]	ND [0.011]	-
SW8081B	Toxaphene	8001-35-2	mg/kg	3.9	0.46		10	ND [0.119]	ND [0.114]	ND [0.119]	ND [0.106]	ND [0.11]	-
SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	mg/kg	1		0.092		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	mg/kg	1		0.00012		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	mg/kg	1		0.00012		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	mg/kg	1		0.0053		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1248 (Aroclor 1248)	12672-29-6	mg/kg	1		0.0052		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1254 (Aroclor 1254)	11097-69-1	mg/kg	1		0.0088		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	mg/kg	1		0.024		ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	mg/kg	1				ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	mg/kg	1				ND [0.0059]	ND [0.0057]	ND [0.0059]	ND [0.0053]	ND [0.0055]	-
SW8151A	2,4,5-T	93-76-5	mg/kg			0.15		ND [0.0077]	ND [0.0076]	ND [0.0079]	ND [0.0069]	ND [0.0075]	-
SW8151A	2,4,5-TP (Silvex)	93-72-1	mg/kg	0.19	0.028		20	ND [0.0077]	ND [0.0076]	ND [0.0079]	ND [0.0069]	ND [0.0075]	-
SW8151A	2,4-D	94-75-7	mg/kg	0.21	0.018		200	ND [0.0077]	ND [0.0076]	ND [0.0079]	ND [0.0069]	ND [0.0075]	-
SW8151A	2,4-DB	94-82-6	mg/kg			0.12		ND [0.0077]	ND [0.0076]	ND [0.0079]	ND [0.0069]	ND [0.0075]	-
SW8151A	Dalapon	75-99-0	mg/kg		0.041			ND [0.029]	ND [0.028]	ND [0.03]	ND [0.026]	ND [0.028]	-
SW8151A	Dicamba	1918-00-9	mg/kg		0.28			ND [0.019]	ND [0.019]	ND [0.02]	ND [0.017]	ND [0.019]	-
SW8151A	Dichlorprop	120-36-5	mg/kg					ND [0.0077]	ND [0.0076]	ND [0.0079]	ND [0.0069]	ND [0.0075]	-



2010 Stockpile and Manhole Waste Results

								Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TB-01
								Sample ID	10FCSRI-SO-PC01	10FCSRI-SO-PC02	10FCSRI-SO-PC03	10FCSRI-SO-PC04	10FCSRI-SO-PC05	10FCSRI-TB01
								Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1106839008
								Matrix	SO	SO	SO	SO	SO	SO
								Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010
								Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
								QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>							
SW8260B	Hexachlorobutadiene	87-68-3	mg/kg	0.12		0.0017	10	ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	ND [0.0718]	ND [0.0501]	
SW8260B	Isopropylbenzene	98-82-8	mg/kg	51		1.1		ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Methylene chloride	75-09-2	mg/kg	0.016	0.0013			<b>0.0964 [0.231] J, B</b>	<b>0.0591 [0.165] J, B</b>	<b>0.0894 [0.212] J, B</b>	<b>0.0738 [0.128] J, B</b>	<b>0.0513 [0.144] J, B</b>	0.0391 [0.1] J	
SW8260B	Methyl-tert-butyl ether (MTBE)	1634-04-4	mg/kg	1.3		0.0028		ND [0.231]	ND [0.165]	ND [0.212]	ND [0.128]	ND [0.144]	ND [0.1]	
SW8260B	Naphthalene	91-20-3	mg/kg	20		0.00047		ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	<b>0.0294 [0.0718] J</b>	ND [0.0501]	
SW8260B	n-Butylbenzene	104-51-8	mg/kg	15				ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	n-Propylbenzene	103-65-1	mg/kg	15		2.5		ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	o-Xylene	95-47-6	mg/kg	63		1.2		ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	ND [0.0718]	ND [0.0501]	
SW8260B	sec-Butylbenzene	135-98-8	mg/kg	12				ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Styrene	100-42-5	mg/kg	0.96	0.11			ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	tert-Butylbenzene	98-06-6	mg/kg	12				ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Tetrachloroethene (PCE)	127-18-4	mg/kg	0.024	0.0023		14	ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Toluene	108-88-3	mg/kg	6.5	0.69			ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	ND [0.0718]	ND [0.0501]	
SW8260B	trans-1,2-Dichloroethene	156-60-5	mg/kg	0.37	0.029			ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	trans-1,3-Dichloropropene	10061-02-6	mg/kg					ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Trichloroethene (TCE)	79-01-6	mg/kg	0.02	0.0018		10	ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Trichlorofluoromethane	75-69-4	mg/kg	86		0.83		ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	ND [0.0718]	ND [0.0501]	
SW8260B	Vinyl chloride	74-01-4	mg/kg	0.0085	0.00069		4	ND [0.0577]	ND [0.0413]	ND [0.0529]	ND [0.0321]	ND [0.0359]	ND [0.0251]	
SW8260B	Xylene, Isomers m & p	108-38-2	mg/kg	63				ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	ND [0.0718]	ND [0.0501]	
SW8260B	Xylenes	1330-20-7	mg/kg	63	9.8			ND [0.231]	ND [0.165]	ND [0.212]	ND [0.128]	ND [0.144]	ND [0.1]	
SW8270D	1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.85	0.2			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	1,2-Dichlorobenzene	95-50-1	mg/kg	5.1	0.58			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	1,3-Dichlorobenzene	541-73-1	mg/kg	28				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	1,4-Dichlorobenzene	106-46-7	mg/kg	0.64	0.72		150	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,4,5-Trichlorophenol	95-95-4	mg/kg	67		14	8000	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,4,6-Trichlorophenol	88-06-2	mg/kg	1.4		0.023	40	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,4-Dichlorophenol	120-83-2	mg/kg	1.3		0.13		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,4-Dimethylphenol	105-67-9	mg/kg	8.8		0.86		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,4-Dinitrophenol	51-28-5	mg/kg	0.54		0.082		ND [3.57]	ND [3.44]	ND [3.53]	ND [3.15]	ND [3.38]	-	
SW8270D	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093		0.00029	2.6	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094		0.05		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Chloronaphthalene	91-58-7	mg/kg	120		15		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Chlorophenol	95-57-8	mg/kg	1.5		0.15		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Methyl-4,6-dinitrophenol	534-52-1	mg/kg			0.005		ND [2.38]	ND [2.29]	ND [2.36]	ND [2.1]	ND [2.26]	-	
SW8270D	2-Methylnaphthalene	91-57-6	mg/kg	6.1		0.75		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Methylphenol (o-Cresol)	95-48-7	mg/kg	15		1.5		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Nitroaniline	88-74-4	mg/kg			0.15		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	2-Nitrophenol	88-75-5	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19		0.00098		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	3-Methylphenol/4-Methylphenol Coelution	108-39-4, 106-44-5	mg/kg	1.5		0.15		ND [1.19]	ND [1.15]	ND [1.18]	ND [1.05]	ND [1.13]	-	
SW8270D	3-Nitroaniline	99-09-2	mg/kg					ND [0.595]	ND [0.573]	ND [0.589]	ND [0.524]	ND [0.564]	-	
SW8270D	4-Bromophenyl phenyl ether	101-55-3	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	4-Chloro-3-methylphenol	59-50-7	mg/kg			4.3		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	4-Chloroaniline	106-47-8	mg/kg	0.057		0.00014		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	4-Chlorophenyl phenyl ether	7005-72-3	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	4-Nitroaniline	100-01-6	mg/kg			0.0014		ND [3.57]	ND [3.44]	ND [3.53]	ND [3.15]	ND [3.38]	-	
SW8270D	4-Nitrophenol	100-02-7	mg/kg					ND [1.19]	ND [1.15]	ND [1.18]	ND [1.05]	ND [1.13]	-	

2010 Stockpile and Manhole Waste Results

								Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TB-01
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								Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1106839008
								Matrix	SO	SO	SO	SO	SO	SO
								Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010
								Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
								QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>							
SW8270D	Acenaphthene	83-32-9	mg/kg	180		22		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Acenaphthylene	208-96-8	mg/kg	180				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Aniline	62-53-3	mg/kg					ND [2.38]	ND [2.29]	ND [2.36]	ND [2.1]	ND [2.26]	-	
SW8270D	Anthracene	120-12-7	mg/kg	3000		360		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Azobenzene	103-33-3	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzo(a)anthracene	56-55-3	mg/kg			0.01		ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzo(a)pyrene	50-32-8	mg/kg	0.49*	0.24			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzo(b)fluoranthene	205-99-2	mg/kg	4.9*	0.035			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzo(g,h,i)perylene	191-24-2	mg/kg	1400*				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzo(k)fluoranthene	207-08-9	mg/kg	49*	0.35			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzoic acid	65-85-0	mg/kg	410	34			ND [1.78]	ND [1.72]	ND [1.77]	ND [1.57]	ND [1.69]	-	
SW8270D	Benzyl alcohol	100-51-6	mg/kg		0.89			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Benzyl butyl phthalate	85-68-7	mg/kg	920	0.51			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	bis-(2-Chloroethoxy)methane	111-91-1	mg/kg		0.025			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	bis-(2-Chloroethyl)ether	111-44-4	mg/kg	0.0022	0.0000031			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	bis(2-Chloroisopropyl)ether	108-60-1	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	bis-(2-Ethylhexyl)phthalate	117-81-7	mg/kg		1.1			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Carbazole	86-74-8	mg/kg					ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Chrysene	218-01-9	mg/kg	360	1.1			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.49*	0.011			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Dibenzofuran	132-64-9	mg/kg	11	0.68			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Diethyl phthalate	84-66-2	mg/kg	130	12			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Dimethyl phthalate	131-11-3	mg/kg	1100				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Di-n-butyl phthalate	84-74-2	mg/kg	80	9.2			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Di-n-octyl phthalate	117-84-0	mg/kg	3100*				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Fluoranthene	206-44-0	mg/kg	1400	160			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Fluorene	86-73-7	mg/kg	220	27			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Hexachlorobenzene	118-74-1	mg/kg	0.047	0.013		2.6	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Hexachlorobutadiene	87-68-3	mg/kg	0.12	0.0017		10	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Hexachlorocyclopentadiene	77-47-4	mg/kg	1.3	0.16			ND [0.832]	ND [0.802]	ND [0.824]	ND [0.734]	ND [0.79]	-	
SW8270D	Hexachloroethane	67-72-1	mg/kg	0.21	0.0029		60	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	4.9*	0.12			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Isophorone	78-59-1	mg/kg	3.1	0.023			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Naphthalene	91-20-3	mg/kg	20	0.00047			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Nitrobenzene	98-95-3	mg/kg	0.094	0.000079		40	ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	n-Nitrosodimethylamine	62-75-9	mg/kg	0.000053	0.0000001			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	n-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.0011	0.0000072			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	n-Nitrosodiphenylamine	86-30-6	mg/kg	15	0.075			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Pentachlorophenol	87-86-5	mg/kg	0.047	0.01		2000	ND [2.38]	ND [2.29]	ND [2.36]	ND [2.1]	ND [2.26]	-	
SW8270D	Phenanthrene	85-01-8	mg/kg	3000				ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Phenol	108-95-2	mg/kg	68	6.3			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8270D	Pyrene	129-00-0	mg/kg	1000	120			ND [0.297]	ND [0.287]	ND [0.294]	ND [0.262]	ND [0.282]	-	
SW8330	1,3,5-Trinitrobenzene	99-35-4	mg/kg	19	3.9			-	-	-	-	-	-	
SW8330	1,3-Dinitrobenzene	99-65-0	mg/kg	0.02	0.0033			-	-	-	-	-	-	
SW8330	2,4,6-Trinitrotoluene	118-96-7	mg/kg	0.49	0.013			-	-	-	-	-	-	
SW8330	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093	0.00029		2.6	-	-	-	-	-	-	
SW8330	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094	0.05			-	-	-	-	-	-	
SW8330	2-Amino-4,6-dinitrotoluene	35572-78-2	mg/kg	0.029	0.056			-	-	-	-	-	-	
SW8330	2-Nitrotoluene	88-72-2	mg/kg	0.025	0.00029			-	-	-	-	-	-	

2010 Stockpile and Manhole Waste Results

								Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TB-01
								Sample ID	10FCSRI-SO-PC01	10FCSRI-SO-PC02	10FCSRI-SO-PC03	10FCSRI-SO-PC04	10FCSRI-SO-PC05	10FCSRI-TB01
								Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1106839008
								Matrix	SO	SO	SO	SO	SO	SO
								Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010
								Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
								QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>							
SW8330	3-Nitrotoluene	99-08-1	mg/kg					-	-	-	-	-	-	
SW8330	4-Amino-2,6-dinitrotoluene	19406-51-0	mg/kg	4.9		0.0034		-	-	-	-	-	-	
SW8330	4-Nitrotoluene	99-99-0	mg/kg	0.029		0.056		-	-	-	-	-	-	
SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	mg/kg	0.34		0.0039		-	-	-	-	-	-	
SW8330	Methyl-2,4,6-trinitrophenylnitramine	479-45-8	mg/kg	0.04		0.00023		-	-	-	-	-	-	
SW8330	Nitrobenzene	98-95-3	mg/kg	4.5		1.4	40	-	-	-	-	-	-	
SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	mg/kg	0.094		0.000079		-	-	-	-	-	-	
SW9034	Reactive Sulfide	18496-25-8	mg/kg					-	-	-	-	-	-	

Notes:

<sup>1</sup> 18 AAC 75, Table B1 and B2, Migration to Groundwater except when noted (ADEC 2008).

<sup>2</sup> EPA Region 9 PRGs, MCL (EPA May 2010)

<sup>3</sup> EPA Region 9 PRGs, Risk criteria where MCL is not provided (EPA May 2010)

<sup>4</sup> Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

\* 18 AAC 75, Table B1 and B2, Under 40 inch Direct Contact (Chloroethane value is Outdoor Inhalation)

- = not analyzed

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds ADEC and/or EPA criteria

For data qualifier definitions see the data quality assessment.

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05	10FWA-TAKU-TB02
							Lab Sample ID	1104992001	1104992002	1104992005	1104992006	1104992007	1104992009
							Matrix	SO	SO	SO	SO	SO	SO
							Sample Date	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
							QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>						
A2540G	Total Solids		Percent					93.4	82.7	81.1	90.3	88.9	-
AK101	Gasoline Range Organics		mg/kg	300				ND [4.15]	1.98 [6.31] J	ND [6.06]	ND [4.1]	ND [5.15]	ND [2.51]
AK102	Diesel Range Organics		mg/kg	250				ND [21.2]	485 [23.9]	ND [24.3]	ND [22]	ND [22.5]	-
AK103	Residual Range Organics		mg/kg	10000*				25.5 [21.2]	56.1 [23.9]	12.2 [24.3] J	ND [22]	ND [22.5]	-
SW1020A	Ignitability		°C					0 [70]	0 [70]	0 [70]	0 [70]	0 [70]	-
SW6020	Arsenic	7440-38-2	mg/kg	3.9	0.29		100	3.62 [1.02]	7.96 [1.18]	6.78 [1.19]	6.67 [1.1]	2.86 [1.12]	-
SW6020	Barium	7440-39-3	mg/kg	1100	82		2000	59.8 [0.307]	95.7 [0.354]	93 [0.356]	63.8 [0.33]	72.2 [0.335]	-
SW6020	Cadmium	7440-43-9	mg/kg	5	0.38		20	0.074 [0.204] J	0.198 [0.236] J	0.119 [0.237] J	0.0803 [0.22] J	ND [0.224]	-
SW6020	Chromium	7440-47-3	mg/kg	25	180000		100	9.57 [0.409] JM+	14 [0.472] JM+	15.1 [0.474] JM+	10.8 [0.441] JM+	9.44 [0.447] JM+	-
SW6020	Lead	7439-92-1	mg/kg	400	14		100	52.3 [0.204] JM+	11.2 [0.236] JM+	6.15 [0.237] JM+	4.51 [0.22] JM+	3.81 [0.224] JM+	-
SW6020	Selenium	7782-49-2	mg/kg	3.4	0.26		20	ND [0.511]	0.225 [0.59] J	ND [0.593]	ND [0.551]	ND [0.559]	-
SW6020	Silver	7440-22-4	mg/kg	11.2		1.6	100	0.0346 [0.102] J	0.0613 [0.118] J	0.0548 [0.119] J	0.0446 [0.11] J	ND [0.112]	-
SW7471B	Mercury	7439-97-6	mg/kg	1.4	0.1		4	ND [0.0427]	ND [0.0478]	ND [0.0482]	ND [0.0428]	ND [0.044]	-
SW8015	Ethylene glycol	107-21-1	mg/kg	190		15		ND [20.9]	ND [23.7]	78.3 [35.6]	ND [19.9]	ND [22.9]	-
SW8015	Propylene glycol	57-55-6	mg/kg					ND [20.9]	ND [23.7]	ND [35.6]	ND [19.9]	ND [22.9]	-
SW8081B	4,4'-DDD	72-54-8	mg/kg	7.2		0.066		0.0014 [0.0021] J	0.0076 [0.0024]	0.0037 [0.0025]	0.0013 [0.0022] J	0.001 [0.0022] J	-
SW8081B	4,4'-DDE	72-55-9	mg/kg	5.1		0.047		ND [0.0043]	0.0062 [0.0048] JM-	ND [0.0123]	ND [0.0022]	ND [0.0022]	-
SW8081B	4,4'-DDT	50-29-3	mg/kg	7.3		0.067		0.0073 [0.0043]	0.0097 [0.0095]	0.0201 [0.0123]	0.0018 [0.0022] J	0.006 [0.0022]	-
SW8081B	Aldrin	309-00-2	mg/kg	0.07				ND [0.0016]	ND [0.0018]	ND [0.0018]	ND [0.0018]	ND [0.0017]	-
SW8081B	alpha-BHC	319-84-6	mg/kg	0.0064		0.000062		ND [0.0016]	ND [0.0018]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	alpha-Chlordane	5103-71-9	mg/kg	2.3			0.6	ND [0.0032]	ND [0.0036]	ND [0.0092]	ND [0.0016]	ND [0.0017]	-
SW8081B	beta-BHC	319-85-7	mg/kg	0.022		0.00022		ND [0.0016]	ND [0.0018]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	Chlordane	12789-03-6	mg/kg					ND [0.0535]	ND [0.0595]	ND [0.0614]	ND [0.0548]	ND [0.0558]	-
SW8081B	delta-BHC	319-86-8	mg/kg					ND [0.0016]	ND [0.0018]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	Dieldrin	60-57-1	mg/kg	0.0076		0.00017		ND [0.0043]	ND [0.0048]	ND [0.0123]	ND [0.0022]	ND [0.0022]	-
SW8081B	Endosulfan I	959-98-8	mg/kg					ND [0.0032]	ND [0.0036]	ND [0.0092]	ND [0.0016]	ND [0.0017]	-
SW8081B	Endosulfan II	33213-65-9	mg/kg					ND [0.0021]	ND [0.0024]	ND [0.0025]	ND [0.0022]	ND [0.0022]	-
SW8081B	Endosulfan sulfate	1031-07-8	mg/kg				0.4	ND [0.0043]	ND [0.0048]	ND [0.0123]	ND [0.0022]	ND [0.0022]	-
SW8081B	Endrin	72-20-8	mg/kg	0.29	0.081			ND [0.0021]	ND [0.0024]	ND [0.0025]	ND [0.0022]	ND [0.0022]	-
SW8081B	Endrin aldehyde	7421-93-4	mg/kg					ND [0.0021]	ND [0.0024]	ND [0.0025]	ND [0.0022]	ND [0.0022]	-
SW8081B	Endrin ketone	53494-70-5	mg/kg					ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8081B	gamma-BHC (Lindane)	58-89-9	mg/kg	0.0095	0.0012		8	ND [0.0016]	ND [0.0018]	ND [0.0018]	ND [0.0016]	ND [0.0017]	-
SW8081B	gamma-Chlordane	5103-74-2	mg/kg	2.3			0.6	ND [0.0032]	ND [0.0036]	ND [0.0092]	ND [0.0016]	ND [0.0017]	-
SW8081B	Heptachlor	76-44-8	mg/kg	0.28	0.033		0.16	ND [0.0021]	ND [0.0024]	ND [0.0025]	ND [0.0022]	ND [0.0022]	-
SW8081B	Heptachlor epoxide	1024-57-3	mg/kg	0.014	0.0041		0.16	ND [0.0021]	ND [0.0024]	ND [0.0025]	ND [0.0022]	ND [0.0022]	-
SW8081B	Methoxychlor	72-43-5	mg/kg	23	2.2		200	ND [0.0043]	ND [0.0095]	ND [0.0123]	ND [0.0022]	ND [0.0022]	-
SW8081B	Toxaphene	8001-35-2	mg/kg	3.9	0.46		10	ND [0.107]	ND [0.119]	ND [0.123]	ND [0.11]	ND [0.112]	-
SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	mg/kg	1		0.092		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	mg/kg	1		0.00012		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	mg/kg	1		0.00012		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	mg/kg	1		0.0053		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1248 (Aroclor 1248)	12672-29-6	mg/kg	1		0.0052		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1254 (Aroclor 1254)	11097-69-1	mg/kg	1		0.0088		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	mg/kg	1		0.024		ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	0.0085 [0.0056]	-
SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	mg/kg	1				ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	mg/kg	1				ND [0.0054]	ND [0.006]	ND [0.0061]	ND [0.0055]	ND [0.0056]	-
SW8151A	2,4,5-T	93-76-5	mg/kg			0.15		ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8151A	2,4,5-TP (Silvex)	93-72-1	mg/kg	0.19	0.028		20	ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8151A	2,4-D	94-75-7	mg/kg	0.21	0.018		200	ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8151A	2,4-DB	94-82-6	mg/kg			0.12		ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8151A	Dalapon	75-99-0	mg/kg		0.041			ND [0.026]	0.012 [0.028] J	ND [0.029]	ND [0.026]	ND [0.026]	-
SW8151A	Dicamba	1918-00-9	mg/kg			0.28		ND [0.018]	ND [0.019] JM-	ND [0.02]	ND [0.017]	ND [0.018]	-
SW8151A	Dichlorprop	120-36-5	mg/kg					ND [0.007]	ND [0.0076] JM-	ND [0.0078]	ND [0.007]	ND [0.007]	-

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05	10FWA-TAKU-TB02
							Lab Sample ID	1104992001	1104992002	1104992005	1104992006	1104992007	1104992009
							Matrix	SO	SO	SO	SO	SO	SO
							Sample Date	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
							QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>						
SW8151A	Dinoseb	88-85-7	mg/kg		0.062			ND [0.018]	ND [0.019]	ND [0.02]	ND [0.017]	ND [0.018]	-
SW8151A	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	94-74-6	mg/kg			0.0047		ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8151A	MCPP (2-(2-methyl-4-chlorophenoxy) propanoic acid)	93-65-2	mg/kg			0.011		ND [0.007]	ND [0.0076]	ND [0.0078]	ND [0.007]	ND [0.007]	-
SW8260B	1,1,1,2-Tetrachloroethane	630-20-6	mg/kg			0.0002		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1,1-Trichloroethane	71-55-6	mg/kg	0.82	0.07			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.017		0.000026		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1,2-Trichloroethane	79-00-5	mg/kg	0.018	0.0016			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1-Dichloroethane	75-34-3	mg/kg	25		0.00069		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1-Dichloroethene	75-35-4	mg/kg	0.03	0.0025		14	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,1-Dichloropropene	563-58-6	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2,3-Trichlorobenzene	87-61-6	mg/kg		0.087			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2,3-Trichloropropane	96-18-4	mg/kg	0.00053		0.00000031		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.85	0.2			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2,4-Trimethylbenzene	95-63-6	mg/kg	23		0.021		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2-Dibromo-3-chloropropane	96-12-8	mg/kg		0.000086			ND [0.166]	ND [0.252]	ND [0.242]	ND [0.164]	ND [0.206]	ND [0.1]
SW8260B	1,2-Dibromoethane	106-93-4	mg/kg	0.00016	0.000014		10	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2-Dichlorobenzene	95-50-1	mg/kg	5.1	0.58			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2-Dichloroethane	107-06-2	mg/kg	0.016	0.0014			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,2-Dichloropropane	78-87-5	mg/kg	0.018	0.0017			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,3,5-Trimethylbenzene	108-67-8	mg/kg	23		0.52		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,3-Dichlorobenzene	541-73-1	mg/kg	28				ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,3-Dichloropropane	142-28-9	mg/kg		0.25			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	1,4-Dichlorobenzene	104-46-7	mg/kg	0.64	0.72		150	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	2,2-Dichloropropane	594-20-7	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	2-Butanone	78-93-3	mg/kg	59		1.5	4000	ND [0.415]	ND [0.631]	ND [0.606]	ND [0.41]	ND [0.515]	ND [0.251]
SW8260B	2-Chlorotoluene	95-49-8	mg/kg		0.71			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	2-Hexanone	591-78-6	mg/kg		0.011			ND [0.415]	ND [0.631]	ND [0.606]	ND [0.41]	ND [0.515]	ND [0.251]
SW8260B	4-Chlorotoluene	106-43-4	mg/kg		2.5			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	4-Isopropyltoluene	99-87-6	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	4-Methyl-2-pentanone	108-10-1	mg/kg	8.1		0.45		ND [0.415]	ND [0.631]	ND [0.606]	ND [0.41]	ND [0.515]	ND [0.251]
SW8260B	Acetone	67-64-1	mg/kg	88		4.5		ND [0.415]	ND [0.631]	ND [0.606]	ND [0.41]	ND [0.515]	ND [0.251]
SW8260B	Benzene	71-43-2	mg/kg	0.025	0.0026		10	ND [0.0207]	ND [0.0316]	ND [0.0303]	ND [0.0205]	ND [0.0257]	ND [0.0125]
SW8260B	Bromobenzene	108-86-1	mg/kg			0.059		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Bromochloromethane	74-97-5	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Bromodichloromethane	75-27-4	mg/kg	0.044	0.022			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Bromoform	75-25-2	mg/kg	0.34	0.021			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Bromomethane	743-83-9	mg/kg	0.16		0.0022		ND [0.332]	ND [0.505]	ND [0.485]	ND [0.328]	ND [0.412]	ND [0.201]
SW8260B	Carbon disulfide	75-15-0	mg/kg	12		0.31		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Carbon tetrachloride	56-23-5	mg/kg	0.023	0.0019		10	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Chlorobenzene	108-90-7	mg/kg	0.63	0.068		2000	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Chloroethane	75-00-3	mg/kg	23		5.9		ND [0.332]	ND [0.505]	ND [0.485]	ND [0.328]	ND [0.412]	ND [0.201]
SW8260B	Chloroform	67-66-3	mg/kg	0.46	0.022		120	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Chloromethane	74-87-3	mg/kg	0.21		0.049		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	cis-1,2-Dichloroethene	156-59-2	mg/kg	0.24	0.021			ND [0.0415] JL-	ND [0.0631]	ND [0.0606] JL-	ND [0.041] JL-	ND [0.0515] JL-	ND [0.0251] JL-
SW8260B	cis-1,3-Dichloropropene	10061-01-5	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Dibromochloromethane	124-48-1	mg/kg	0.032	0.021			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Dibromomethane	74-95-3	mg/kg	1.1		0.002		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Dichlorodifluoromethane	75-71-8	mg/kg	140		0.61		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Ethylbenzene	100-41-4	mg/kg	6.9	0.78			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05	10FWA-TAKU-TB02
							Lab Sample ID	1104992001	1104992002	1104992005	1104992006	1104992007	1104992009
							Matrix	SO	SO	SO	SO	SO	SO
							Sample Date	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
							QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>						
SW8260B	Hexachlorobutadiene	87-68-3	mg/kg	0.12		0.0017	10	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Isopropylbenzene	98-82-8	mg/kg	51		1.1		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Methylene chloride	75-09-2	mg/kg	0.016	0.0013			ND [0.166]	ND [0.252]	ND [0.242]	ND [0.164]	ND [0.206]	ND [0.1]
SW8260B	Methyl-tert-butyl ether (MTBE)	1634-04-4	mg/kg	1.3		0.0028		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Naphthalene	91-20-3	mg/kg	20		0.00047		ND [0.083]	ND [0.126]	ND [0.121]	ND [0.0819]	ND [0.103]	ND [0.0501]
SW8260B	n-Butylbenzene	104-51-8	mg/kg	15				ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	n-Propylbenzene	103-65-1	mg/kg	15		2.5		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	o-Xylene	95-47-6	mg/kg	63		1.2		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	sec-Butylbenzene	135-98-8	mg/kg	12				ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Styrene	100-42-5	mg/kg	0.96	0.11			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	tert-Butylbenzene	98-06-6	mg/kg	12				ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Tetrachloroethene (PCE)	127-18-4	mg/kg	0.024	0.0023		14	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Toluene	108-88-3	mg/kg	6.5	0.69			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	trans-1,2-Dichloroethene	156-60-5	mg/kg	0.37	0.029			ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	trans-1,3-Dichloropropene	10061-02-6	mg/kg					ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Trichloroethene (TCE)	79-01-6	mg/kg	0.02	0.0018		10	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Trichlorofluoromethane	75-69-4	mg/kg	86		0.83		ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Vinyl chloride	74-01-4	mg/kg	0.0085	0.00069		4	ND [0.0415]	ND [0.0631]	ND [0.0606]	ND [0.041]	ND [0.0515]	ND [0.0251]
SW8260B	Xylene, Isomers m & p	108-38-2	mg/kg	63				ND [0.083]	ND [0.126]	ND [0.121]	ND [0.0819]	ND [0.103]	ND [0.0501]
SW8260B	Xylenes	1330-20-7	mg/kg	63	9.8			ND [0.124]	ND [0.189]	ND [0.182]	ND [0.123]	ND [0.154]	ND [0.0752]
SW8270D	1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.85	0.2			ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	1,2-Dichlorobenzene	95-50-1	mg/kg	5.1	0.58			ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	1,3-Dichlorobenzene	541-73-1	mg/kg	28				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	1,4-Dichlorobenzene	106-46-7	mg/kg	0.64	0.72		150	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,4,5-Trichlorophenol	95-95-4	mg/kg	67		14	8000	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,4,6-Trichlorophenol	88-06-2	mg/kg	1.4		0.023	40	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,4-Dichlorophenol	120-83-2	mg/kg	1.3		0.13		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,4-Dimethylphenol	105-67-9	mg/kg	8.8		0.86		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,4-Dinitrophenol	51-28-5	mg/kg	0.54		0.082		ND [3.17]	ND [3.57]	ND [3.66]	ND [3.28]	ND [3.34]	-
SW8270D	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093		0.00029	2.6	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094		0.05		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Chloronaphthalene	91-58-7	mg/kg	120		15		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Chlorophenol	95-57-8	mg/kg	1.5		0.15		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Methyl-4,6-dinitrophenol	534-52-1	mg/kg			0.005		ND [2.12]	ND [2.38]	ND [2.44]	ND [2.19]	ND [2.23]	-
SW8270D	2-Methylnaphthalene	91-57-6	mg/kg	6.1		0.75		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Methylphenol (o-Cresol)	95-48-7	mg/kg	15		1.5		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Nitroaniline	88-74-4	mg/kg			0.15		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	2-Nitrophenol	88-75-5	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19		0.00098		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	3-Methylphenol/4-Methylphenol Coelution	108-39-4, 106-44-5	mg/kg	1.5		0.15		ND [1.06]	ND [1.19]	ND [1.22]	ND [1.09]	ND [1.11]	-
SW8270D	3-Nitroaniline	99-09-2	mg/kg					ND [0.529]	ND [0.594]	ND [0.61]	ND [0.547]	ND [0.557]	-
SW8270D	4-Bromophenyl phenyl ether	101-55-3	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	4-Chloro-3-methylphenol	59-50-7	mg/kg			4.3		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	4-Chloroaniline	106-47-8	mg/kg	0.057		0.00014		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	4-Chlorophenyl phenyl ether	7005-72-3	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-
SW8270D	4-Nitroaniline	100-01-6	mg/kg			0.0014		ND [3.17]	ND [3.57]	ND [3.66]	ND [3.28]	ND [3.34]	-
SW8270D	4-Nitrophenol	100-02-7	mg/kg					ND [1.06]	ND [1.19]	ND [1.22]	ND [1.09]	ND [1.11]	-

2010 Stockpile and Manhole Waste Results

								Loc ID	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05	TAKU-TB02
								Sample ID	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05	10FWA-TAKU-TB02
								Lab Sample ID	1104992001	1104992002	1104992005	1104992006	1104992007	1104992009
								Matrix	SO	SO	SO	SO	SO	SO
								Sample Date	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
								Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
								QA/QC	Primary	Primary	Primary	Primary	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCPLP Action Level <sup>4</sup>							
SW8270D	Acenaphthene	83-32-9	mg/kg	180		22		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Acenaphthylene	208-96-8	mg/kg	180				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Aniline	62-53-3	mg/kg					ND [2.12]	ND [2.38]	ND [2.44]	ND [2.19]	ND [2.23]	-	
SW8270D	Anthracene	120-12-7	mg/kg	3000		360		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Azobenzene	103-33-3	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzo(a)anthracene	56-55-3	mg/kg			0.01		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzo(a)pyrene	50-32-8	mg/kg	0.49*	0.24			ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzo(b)fluoranthene	205-99-2	mg/kg	4.9*		0.035		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzo(g,h,i)perylene	191-24-2	mg/kg	1400*				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzo(k)fluoranthene	207-08-9	mg/kg	49*		0.35		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzoic acid	65-85-0	mg/kg	410		34		ND [1.59]	ND [1.78]	ND [1.83]	ND [1.64]	ND [1.67]	-	
SW8270D	Benzyl alcohol	100-51-6	mg/kg			0.89		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Benzyl butyl phthalate	85-68-7	mg/kg	920		0.51		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	bis-(2-Chloroethoxy)methane	111-91-1	mg/kg			0.025		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	bis-(2-Chloroethyl)ether	111-44-4	mg/kg	0.0022		0.0000031		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	bis(2-Chloroisopropyl)ether	108-60-1	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	bis-(2-Ethylhexyl)phthalate	117-81-7	mg/kg			1.1		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Carbazole	86-74-8	mg/kg					ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Chrysene	218-01-9	mg/kg	360		1.1		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.49*		0.011		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Dibenzofuran	132-64-9	mg/kg	11		0.68		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Diethyl phthalate	84-66-2	mg/kg	130		12		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Dimethyl phthalate	131-11-3	mg/kg	1100				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Di-n-butyl phthalate	84-74-2	mg/kg	80		9.2		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Di-n-octyl phthalate	117-84-0	mg/kg	3100*				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Fluoranthene	206-44-0	mg/kg	1400		160		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Fluorene	86-73-7	mg/kg	220		27		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Hexachlorobenzene	118-74-1	mg/kg	0.047	0.013		2.6	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Hexachlorobutadiene	87-68-3	mg/kg	0.12		0.0017	10	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Hexachlorocyclopentadiene	77-47-4	mg/kg	1.3	0.16			ND [0.74]	ND [0.832]	ND [0.853]	ND [0.766]	ND [0.78]	-	
SW8270D	Hexachloroethane	67-72-1	mg/kg	0.21		0.0029	60	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	4.9*		0.12		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Isophorone	78-59-1	mg/kg	3.1		0.023		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Naphthalene	91-20-3	mg/kg	20		0.00047		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Nitrobenzene	98-95-3	mg/kg	0.094		0.000079	40	ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	n-Nitrosodimethylamine	62-75-9	mg/kg	0.000053		0.0000001		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	n-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.0011		0.0000072		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	n-Nitrosodiphenylamine	86-30-6	mg/kg	15		0.075		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Pentachlorophenol	87-86-5	mg/kg	0.047	0.01		2000	ND [2.12]	ND [2.38]	ND [2.44]	ND [2.19]	ND [2.23]	-	
SW8270D	Phenanthrene	85-01-8	mg/kg	3000				ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Phenol	108-95-2	mg/kg	68		6.3		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8270D	Pyrene	129-00-0	mg/kg	1000		120		ND [0.264]	ND [0.297]	ND [0.305]	ND [0.274]	ND [0.279]	-	
SW8330	1,3,5-Trinitrobenzene	99-35-4	mg/kg	19		3.9		-	-	-	-	-	-	
SW8330	1,3-Dinitrobenzene	99-65-0	mg/kg	0.02		0.0033		-	-	-	-	-	-	
SW8330	2,4,6-Trinitrotoluene	118-96-7	mg/kg	0.49		0.013		-	-	-	-	-	-	
SW8330	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093		0.00029	2.6	-	-	-	-	-	-	
SW8330	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094		0.05		-	-	-	-	-	-	
SW8330	2-Amino-4,6-dinitrotoluene	35572-78-2	mg/kg	0.029		0.056		-	-	-	-	-	-	
SW8330	2-Nitrotoluene	88-72-2	mg/kg	0.025		0.00029		-	-	-	-	-	-	

2010 Stockpile and Manhole Waste Results

								Loc ID	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05	TAKU-TB02
								Sample ID	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05	10FWA-TAKU-TB02
								Lab Sample ID	1104992001	1104992002	1104992005	1104992006	1104992007	1104992009
								Matrix	SO	SO	SO	SO	SO	SO
								Sample Date	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
								Laboratory QA/QC	SGSA Primary	SGSA Trip Blank				
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>							
SW8330	3-Nitrotoluene	99-08-1	mg/kg					-	-	-	-	-	-	
SW8330	4-Amino-2,6-dinitrotoluene	19406-51-0	mg/kg	4.9		0.0034		-	-	-	-	-	-	
SW8330	4-Nitrotoluene	99-99-0	mg/kg	0.029		0.056		-	-	-	-	-	-	
SW8330	Hexahydro-1,3,5-trinitro-1,3,5-triazine	121-82-4	mg/kg	0.34		0.0039		-	-	-	-	-	-	
SW8330	Methyl-2,4,6-trinitrophenylnitramine	479-45-8	mg/kg	0.04		0.00023		-	-	-	-	-	-	
SW8330	Nitrobenzene	98-95-3	mg/kg	4.5		1.4	40	-	-	-	-	-	-	
SW8330	Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine	2691-41-0	mg/kg	0.094		0.000079		-	-	-	-	-	-	
SW9034	Reactive Sulfide	18496-25-8	mg/kg					1.33 [2.14] J	ND [2.14]	-	-	-	-	

Notes:

<sup>1</sup> 18 AAC 75, Table B1 and B2, Migration to Groundwater except when noted (ADEC 2008).

<sup>2</sup> EPA Region 9 PRGs, MCL (EPA May 2010)

<sup>3</sup> EPA Region 9 PRGs, Risk criteria where MCL is not provided (EPA May 2010)

<sup>4</sup> Table 1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

\* 18 AAC 75, Table B1 and B2, Under 40 inch Direct Contact (Chloroethane value is Outdoor Inhalation)

- = not analyzed

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds ADEC and/or EPA criteria

For data qualifier definitions see the data quality assessment.

Taku Stockpile and Manhole 2010 ADEC Exceedances

					Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05
					Sample ID	10FCSRI-SO-PC01	10FCSRI-SO-PC02	10FCSRI-SO-PC03	10FCSRI-SO-PC04	10FCSRI-SO-PC05	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05
					Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1104992001	1104992002	1104992005	1104992006	1104992007
					Matrix	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
					Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
					Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
					QA/QC	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>											
SW6020	Arsenic	7440-38-2	mg/kg	3.9	11.1 [1.15]	9.78 [1.07]	10.7 [1.15]	3.67 [1.02]	4.55 [1.11]	3.62 [1.02]	7.96 [1.18]	6.78 [1.19]	6.67 [1.1]	2.86 [1.12]	
SW8260B	Methylene chloride	75-09-2	mg/kg	0.016	<b>0.0964 [0.231] J, B</b>	<b>0.0591 [0.165] J, B</b>	<b>0.0894 [0.212] J, B</b>	<b>0.0738 [0.128] J, B</b>	<b>0.0513 [0.144] J, B</b>	ND [0.166]	ND [0.252]	ND [0.242]	ND [0.164]	ND [0.206]	

Notes:

<sup>1</sup> 18 AAC 75, Table B1 and B2, Migration to Groundwater except when noted

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds ADEC criteria

For data qualifier definitions see the data quality assessment.

Taku Stockpile and Manhole 2010 EPA Exceedances

				Loc ID	PC01-NW	PC02-NE	PC03-CTR	PC04-SE	PC05-SW	TAKU-W01	TAKU-W02	TAKU-W03	TAKU-W04	TAKU-W05
				Sample ID	10FCSRI-SO-PC01	10FCSRI-SO-PC02	10FCSRI-SO-PC03	10FCSRI-SO-PC04	10FCSRI-SO-PC05	10FWA-TAKU-SO-W01	10FWA-TAKU-SO-W02	10FWA-TAKU-SO-W03	10FWA-TAKU-SO-W04	10FWA-TAKU-SO-W05
				Lab Sample ID	1106839001	1106839002	1106839003	1106839004	1106839005	1104992001	1104992002	1104992005	1104992006	1104992007
				Matrix	SO	SO	SO	SO	SO	SO	SO	SO	SO	SO
				Sample Date	10/13/2010	10/13/2010	10/13/2010	10/13/2010	10/13/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010	8/10/2010
				Laboratory	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA	SGSA
				QA/QC	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary	Primary
Method	Analyte	CAS Number	Units	EPA Criteria <sup>1</sup>										
SW6020	Arsenic	7440-38-2	mg/kg	0.29	11.1 [1.15]	9.78 [1.07]	10.7 [1.15]	3.67 [1.02]	4.55 [1.11]	3.62 [1.02]	7.96 [1.18]	6.78 [1.19]	6.67 [1.1]	2.86 [1.12]
SW6020	Barium	7440-39-3	mg/kg	82	110 [0.346] JM+	113 [0.321] JM+	117 [0.346] JM+	83.8 [0.306] JM+	70.5 [0.332] JM+	59.8 [0.307]	95.7 [0.354]	93 [0.356]	63.8 [0.33]	72.2 [0.335]
SW6020	Lead	7439-92-1	mg/kg	14	9.63 [0.231]	11.9 [0.214]	7.42 [0.23]	4.26 [0.204]	5.32 [0.221]	52.3 [0.204] JM+	11.2 [0.236] JM+	6.15 [0.237] JM+	4.51 [0.22] JM+	3.81 [0.224] JM+
SW6020	Selenium	7782-49-2	mg/kg	0.26	0.409 [0.576] J	0.299 [0.536] J	0.28 [0.576] J	ND [0.51]	ND [0.553]	ND [0.511]	0.225 [0.59] J	ND [0.593]	ND [0.551]	ND [0.559]
SW8260B	Methylene chloride	75-09-2	mg/kg	0.0013	0.0964 [0.231] J, B	0.0591 [0.165] J, B	0.0894 [0.212] J, B	0.0738 [0.128] J, B	0.0513 [0.144] J, B	ND [0.166]	ND [0.252]	ND [0.242]	ND [0.164]	ND [0.206]
SW8260B	Naphthalene	91-20-3	mg/kg	0.00047 <sup>2</sup>	ND [0.115]	ND [0.0827]	ND [0.106]	ND [0.0642]	0.0294 [0.0718] J	ND [0.083]	ND [0.126]	ND [0.121]	ND [0.0819]	ND [0.103]

Notes:

<sup>1</sup> EPA Region 9 PRGs, MCL Criteria except when noted (EPA May 2010)

<sup>2</sup> EPA Region 9 PRGs, Risk Based Criteria (EPA May 2010)

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds EPA criteria

For data qualifier definitions see the data quality assessment.

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
A2540G	Total Solids		Percent					95.5	-
AK101	Gasoline Range Organics		mg/kg	300				ND [5.13]	ND [2.51]
AK102	Diesel Range Organics		mg/kg	250				ND [20.6]	-
AK103	Residual Range Organics		mg/kg	10000*				25.3 [20.6]	-
SW1020A	Ignitability		° C					0 [70]	-
SW6020	Arsenic	7440-38-2	mg/kg	3.9	0.29		100	5 [1.02]	-
SW6020	Barium	7440-39-3	mg/kg	1100	82		2000	75.7 [0.306]	-
SW6020	Cadmium	7440-43-9	mg/kg	5	0.38		20	0.102 [0.204] J	-
SW6020	Chromium	7440-47-3	mg/kg	25	180000		100	14.1 [0.408] JM+	-
SW6020	Lead	7439-92-1	mg/kg	400	14		100	5.66 [0.204] JM+	-
SW6020	Selenium	7782-49-2	mg/kg	3.4	0.26		20	ND [0.51]	-
SW6020	Silver	7440-22-4	mg/kg	11.2		1.6	100	0.0503 [0.102] J	-
SW7471B	Mercury	7439-97-6	mg/kg	1.4	0.1		4	0.0146 [0.041] J	-
SW8015	Ethylene glycol	107-21-1	mg/kg	190		15		ND [21.2]	-
SW8015	Propylene glycol	57-55-6	mg/kg					ND [21.2]	-
SW8081B	4,4'-DDD	72-54-8	mg/kg	7.2		0.066		ND [0.0021]	-
SW8081B	4,4'-DDE	72-55-9	mg/kg	5.1		0.047		ND [0.0021]	-
SW8081B	4,4'-DDT	50-29-3	mg/kg	7.3		0.067		ND [0.0021]	-
SW8081B	Aldrin	309-00-2	mg/kg	0.07				ND [0.0016]	-
SW8081B	alpha-BHC	319-84-6	mg/kg	0.0064		0.000062		ND [0.0016]	-
SW8081B	alpha-Chlordane	5103-71-9	mg/kg	2.3			0.6	ND [0.0016]	-
SW8081B	beta-BHC	319-85-7	mg/kg	0.022		0.00022		ND [0.0016]	-
SW8081B	Chlordane	12789-03-6	mg/kg					ND [0.0522]	-
SW8081B	delta-BHC	319-86-8	mg/kg					ND [0.0016]	-
SW8081B	Dieldrin	60-57-1	mg/kg	0.0076		0.00017		ND [0.0021]	-
SW8081B	Endosulfan I	959-98-8	mg/kg					ND [0.0016]	-
SW8081B	Endosulfan II	33213-65-9	mg/kg					ND [0.0021]	-
SW8081B	Endosulfan sulfate	1031-07-8	mg/kg				0.4	ND [0.0021]	-
SW8081B	Endrin	72-20-8	mg/kg	0.29	0.081			ND [0.0021]	-
SW8081B	Endrin aldehyde	7421-93-4	mg/kg					ND [0.0021]	-
SW8081B	Endrin ketone	53494-70-5	mg/kg					ND [0.0052]	-
SW8081B	gamma-BHC (Lindane)	58-89-9	mg/kg	0.0095	0.0012		8	ND [0.0016]	-
SW8081B	gamma-Chlordane	5103-74-2	mg/kg	2.3			0.6	ND [0.0016]	-
SW8081B	Heptachlor	76-44-8	mg/kg	0.28	0.033		0.16	ND [0.0021]	-
SW8081B	Heptachlor epoxide	1024-57-3	mg/kg	0.014	0.0041		0.16	ND [0.0021]	-
SW8081B	Methoxychlor	72-43-5	mg/kg	23	2.2		200	ND [0.0021]	-
SW8081B	Toxaphene	8001-35-2	mg/kg	3.9	0.46		10	ND [0.104]	-
SW8082A	PCB-1016 (Aroclor 1016)	12674-11-2	mg/kg	1		0.092		ND [0.0052]	-

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
SW8082A	PCB-1221 (Aroclor 1221)	11104-28-2	mg/kg	1		0.00012		ND [0.0052]	-
SW8082A	PCB-1232 (Aroclor 1232)	11141-16-5	mg/kg	1		0.00012		ND [0.0052]	-
SW8082A	PCB-1242 (Aroclor 1242)	53469-21-9	mg/kg	1		0.0053		ND [0.0052]	-
SW8082A	PCB-1248 (Aroclor 1248)	12672-29-6	mg/kg	1		0.0052		ND [0.0052]	-
SW8082A	PCB-1254 (Aroclor 1254)	11097-69-1	mg/kg	1		0.0088		ND [0.0052]	-
SW8082A	PCB-1260 (Aroclor 1260)	11096-82-5	mg/kg	1		0.024		0.193 [0.0052]	-
SW8082A	PCB-1262 (Aroclor 1262)	37324-23-5	mg/kg	1				ND [0.0052]	-
SW8082A	PCB-1268 (Aroclor 1268)	11100-14-4	mg/kg	1				ND [0.0052]	-
SW8151A	2,4,5-T	93-76-5	mg/kg			0.15		ND [0.0069]	-
SW8151A	2,4,5-TP (Silvex)	93-72-1	mg/kg	0.19	0.028		20	ND [0.0069]	-
SW8151A	2,4-D	94-75-7	mg/kg	0.21	0.018		200	ND [0.0069]	-
SW8151A	2,4-DB	94-82-6	mg/kg			0.12		ND [0.0069]	-
SW8151A	Dalapon	75-99-0	mg/kg		0.041			ND [0.026]	-
SW8151A	Dicamba	1918-00-9	mg/kg			0.28		ND [0.017]	-
SW8151A	Dichlorprop	120-36-5	mg/kg					ND [0.0069]	-
SW8151A	Dinoseb	88-85-7	mg/kg		0.062			ND [0.017]	-
SW8151A	2-Methyl-4-chlorophenoxy ac	94-74-6	mg/kg			0.0047		ND [0.0069]	-
SW8151A	1-methyl-4-chlorophenoxy) pro	93-65-2	mg/kg			0.011		ND [0.0069]	-
SW8260B	1,1,1,2-Tetrachloroethane	630-20-6	mg/kg			0.0002		ND [0.0513]	ND [0.0251]
SW8260B	1,1,1-Trichloroethane	71-55-6	mg/kg	0.82	0.07			ND [0.0513]	ND [0.0251]
SW8260B	1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	0.017		0.000026		ND [0.0513]	ND [0.0251]
SW8260B	1,1,2-Trichloroethane	79-00-5	mg/kg	0.018	0.0016			ND [0.0513]	ND [0.0251]
SW8260B	1,1-Dichloroethane	75-34-3	mg/kg	25		0.00069		ND [0.0513]	ND [0.0251]
SW8260B	1,1-Dichloroethene	75-35-4	mg/kg	0.03	0.0025		14	ND [0.0513]	ND [0.0251]
SW8260B	1,1-Dichloropropene	563-58-6	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	1,2,3-Trichlorobenzene	87-61-6	mg/kg			0.087		ND [0.0513]	ND [0.0251]
SW8260B	1,2,3-Trichloropropane	96-18-4	mg/kg	0.00053		0.00000031		ND [0.0513]	ND [0.0251]
SW8260B	1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.85	0.2			ND [0.0513]	ND [0.0251]
SW8260B	1,2,4-Trimethylbenzene	95-63-6	mg/kg	23		0.021		ND [0.0513]	ND [0.0251]
SW8260B	1,2-Dibromo-3-chloropropane	96-12-8	mg/kg		0.000086			ND [0.205]	ND [0.1]
SW8260B	1,2-Dibromoethane	106-93-4	mg/kg	0.00016	0.000014		10	ND [0.0513]	ND [0.0251]
SW8260B	1,2-Dichlorobenzene	95-50-1	mg/kg	5.1	0.58			ND [0.0513]	ND [0.0251]
SW8260B	1,2-Dichloroethane	107-06-2	mg/kg	0.016	0.0014			ND [0.0513]	ND [0.0251]
SW8260B	1,2-Dichloropropane	78-87-5	mg/kg	0.018	0.0017			ND [0.0513]	ND [0.0251]
SW8260B	1,3,5-Trimethylbenzene	108-67-8	mg/kg	23		0.52		ND [0.0513]	ND [0.0251]
SW8260B	1,3-Dichlorobenzene	541-73-1	mg/kg	28				ND [0.0513]	ND [0.0251]
SW8260B	1,3-Dichloropropane	142-28-9	mg/kg			0.25		ND [0.0513]	ND [0.0251]

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
SW8260B	1,4-Dichlorobenzene	104-46-7	mg/kg	0.64	0.72		150	ND [0.0513]	ND [0.0251]
SW8260B	2,2-Dichloropropane	594-20-7	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	2-Butanone	78-93-3	mg/kg	59		1.5	4000	ND [0.513]	ND [0.251]
SW8260B	2-Chlorotoluene	95-49-8	mg/kg			0.71		ND [0.0513]	ND [0.0251]
SW8260B	2-Hexanone	591-78-6	mg/kg			0.011		ND [0.513]	ND [0.251]
SW8260B	4-Chlorotoluene	106-43-4	mg/kg			2.5		ND [0.0513]	ND [0.0251]
SW8260B	4-Isopropyltoluene	99-87-6	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	4-Methyl-2-pentanone	108-10-1	mg/kg	8.1		0.45		ND [0.513]	ND [0.251]
SW8260B	Acetone	67-64-1	mg/kg	88		4.5		ND [0.513]	ND [0.251]
SW8260B	Benzene	71-43-2	mg/kg	0.025	0.0026		10	ND [0.0256]	ND [0.0125]
SW8260B	Bromobenzene	108-86-1	mg/kg			0.059		ND [0.0513]	ND [0.0251]
SW8260B	Bromochloromethane	74-97-5	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	Bromodichloromethane	75-27-4	mg/kg	0.044	0.022			ND [0.0513]	ND [0.0251]
SW8260B	Bromoform	75-25-2	mg/kg	0.34	0.021			ND [0.0513]	ND [0.0251]
SW8260B	Bromomethane	743-83-9	mg/kg	0.16		0.0022		ND [0.41]	ND [0.201]
SW8260B	Carbon disulfide	75-15-0	mg/kg	12		0.31		ND [0.0513]	ND [0.0251]
SW8260B	Carbon tetrachloride	56-23-5	mg/kg	0.023	0.0019		10	ND [0.0513]	ND [0.0251]
SW8260B	Chlorobenzene	108-90-7	mg/kg	0.63	0.068		2000	ND [0.0513]	ND [0.0251]
SW8260B	Chloroethane	75-00-3	mg/kg	23		5.9		ND [0.41]	ND [0.201]
SW8260B	Chloroform	67-66-3	mg/kg	0.46	0.022		120	ND [0.0513]	ND [0.0251]
SW8260B	Chloromethane	74-87-3	mg/kg	0.21		0.049		ND [0.0513]	ND [0.0251]
SW8260B	cis-1,2-Dichloroethene	156-59-2	mg/kg	0.24	0.021			ND [0.0513] JL-	ND [0.0251] JL-
SW8260B	cis-1,3-Dichloropropene	10061-01-5	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	Dibromochloromethane	124-48-1	mg/kg	0.032	0.021			ND [0.0513]	ND [0.0251]
SW8260B	Dibromomethane	74-95-3	mg/kg	1.1		0.002		ND [0.0513]	ND [0.0251]
SW8260B	Dichlorodifluoromethane	75-71-8	mg/kg	140		0.61		ND [0.0513]	ND [0.0251]
SW8260B	Ethylbenzene	100-41-4	mg/kg	6.9	0.78			ND [0.0513]	ND [0.0251]
SW8260B	Hexachlorobutadiene	87-68-3	mg/kg	0.12		0.0017	10	ND [0.0513]	ND [0.0251]
SW8260B	Isopropylbenzene	98-82-8	mg/kg	51		1.1		ND [0.0513]	ND [0.0251]
SW8260B	Methylene chloride	75-09-2	mg/kg	0.016	0.0013			ND [0.205]	ND [0.1]
SW8260B	Methyl-tert-butyl ether (MTBE)	1634-04-4	mg/kg	1.3		0.0028		ND [0.0513]	ND [0.0251]
SW8260B	Naphthalene	91-20-3	mg/kg	20		0.00047		ND [0.103]	ND [0.0501]
SW8260B	n-Butylbenzene	104-51-8	mg/kg	15				ND [0.0513]	ND [0.0251]
SW8260B	n-Propylbenzene	103-65-1	mg/kg	15		2.5		ND [0.0513]	ND [0.0251]
SW8260B	o-Xylene	95-47-6	mg/kg	63		1.2		ND [0.0513]	ND [0.0251]
SW8260B	sec-Butylbenzene	135-98-8	mg/kg	12				ND [0.0513]	ND [0.0251]
SW8260B	Styrene	100-42-5	mg/kg	0.96	0.11			ND [0.0513]	ND [0.0251]
SW8260B	tert-Butylbenzene	98-06-6	mg/kg	12				ND [0.0513]	ND [0.0251]

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
SW8260B	Tetrachloroethene (PCE)	127-18-4	mg/kg	0.024	0.0023		14	ND [0.0513]	ND [0.0251]
SW8260B	Toluene	108-88-3	mg/kg	6.5	0.69			ND [0.0513]	ND [0.0251]
SW8260B	trans-1,2-Dichloroethene	156-60-5	mg/kg	0.37	0.029			ND [0.0513]	ND [0.0251]
SW8260B	trans-1,3-Dichloropropene	10061-02-6	mg/kg					ND [0.0513]	ND [0.0251]
SW8260B	Trichloroethene (TCE)	79-01-6	mg/kg	0.02	0.0018		10	ND [0.0513]	ND [0.0251]
SW8260B	Trichlorofluoromethane	75-69-4	mg/kg	86		0.83		ND [0.0513]	ND [0.0251]
SW8260B	Vinyl chloride	74-01-4	mg/kg	0.0085	0.00069		4	ND [0.0513]	ND [0.0251]
SW8260B	Xylene, Isomers m & p	108-38-2	mg/kg	63				ND [0.103]	ND [0.0501]
SW8260B	Xylenes	1330-20-7	mg/kg	63	9.8			ND [0.154]	ND [0.0752]
SW8270D	1,2,4-Trichlorobenzene	120-82-1	mg/kg	0.85	0.2			ND [0.26]	-
SW8270D	1,2-Dichlorobenzene	95-50-1	mg/kg	5.1	0.58			ND [0.26]	-
SW8270D	1,3-Dichlorobenzene	541-73-1	mg/kg	28				ND [0.26]	-
SW8270D	1,4-Dichlorobenzene	106-46-7	mg/kg	0.64	0.72		150	ND [0.26]	-
SW8270D	2,4,5-Trichlorophenol	95-95-4	mg/kg	67		14	8000	ND [0.26]	-
SW8270D	2,4,6-Trichlorophenol	88-06-2	mg/kg	1.4		0.023	40	ND [0.26]	-
SW8270D	2,4-Dichlorophenol	120-83-2	mg/kg	1.3		0.13		ND [0.26]	-
SW8270D	2,4-Dimethylphenol	105-67-9	mg/kg	8.8		0.86		ND [0.26]	-
SW8270D	2,4-Dinitrophenol	51-28-5	mg/kg	0.54		0.082		ND [3.12]	-
SW8270D	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093		0.00029	2.6	ND [0.26]	-
SW8270D	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094		0.05		ND [0.26]	-
SW8270D	2-Chloronaphthalene	91-58-7	mg/kg	120		15		ND [0.26]	-
SW8270D	2-Chlorophenol	95-57-8	mg/kg	1.5		0.15		ND [0.26]	-
SW8270D	2-Methyl-4,6-dinitrophenol	534-52-1	mg/kg			0.005		ND [2.08]	-
SW8270D	2-Methylnaphthalene	91-57-6	mg/kg	6.1		0.75		ND [0.26]	-
SW8270D	2-Methylphenol (o-Cresol)	95-48-7	mg/kg	15		1.5		ND [0.26]	-
SW8270D	2-Nitroaniline	88-74-4	mg/kg			0.15		ND [0.26]	-
SW8270D	2-Nitrophenol	88-75-5	mg/kg					ND [0.26]	-
SW8270D	3,3'-Dichlorobenzidine	91-94-1	mg/kg	0.19		0.00098		ND [0.26]	-
SW8270D	4-Chlorophenol/4-Methylphenol	108-39-4, 106-44	mg/kg	1.5		0.15		ND [1.04]	-
SW8270D	3-Nitroaniline	99-09-2	mg/kg					ND [0.52]	-
SW8270D	4-Bromophenyl phenyl ether	101-55-3	mg/kg					ND [0.26]	-
SW8270D	4-Chloro-3-methylphenol	59-50-7	mg/kg			4.3		ND [0.26]	-
SW8270D	4-Chloroaniline	106-47-8	mg/kg	0.057		0.00014		ND [0.26]	-
SW8270D	4-Chlorophenyl phenyl ether	7005-72-3	mg/kg					ND [0.26]	-
SW8270D	4-Nitroaniline	100-01-6	mg/kg			0.0014		ND [3.12]	-
SW8270D	4-Nitrophenol	100-02-7	mg/kg					ND [1.04]	-

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
SW8270D	Acenaphthene	83-32-9	mg/kg	180		22		ND [0.26]	-
SW8270D	Acenaphthylene	208-96-8	mg/kg	180				ND [0.26]	-
SW8270D	Aniline	62-53-3	mg/kg					ND [2.08]	-
SW8270D	Anthracene	120-12-7	mg/kg	3000		360		ND [0.26]	-
SW8270D	Azobenzene	103-33-3	mg/kg					ND [0.26]	-
SW8270D	Benzo(a)anthracene	56-55-3	mg/kg			0.01		ND [0.26]	-
SW8270D	Benzo(a)pyrene	50-32-8	mg/kg	0.49*	0.24			ND [0.26]	-
SW8270D	Benzo(b)fluoranthene	205-99-2	mg/kg	4.9*		0.035		ND [0.26]	-
SW8270D	Benzo(g,h,i)perylene	191-24-2	mg/kg	1400*				ND [0.26]	-
SW8270D	Benzo(k)fluoranthene	207-08-9	mg/kg	49*		0.35		ND [0.26]	-
SW8270D	Benzoic acid	65-85-0	mg/kg	410		34		ND [1.56]	-
SW8270D	Benzyl alcohol	100-51-6	mg/kg			0.89		ND [0.26]	-
SW8270D	Benzyl butyl phthalate	85-68-7	mg/kg	920		0.51		ND [0.26]	-
SW8270D	bis-(2-Chloroethoxy)methane	111-91-1	mg/kg			0.025		ND [0.26]	-
SW8270D	bis-(2-Chloroethyl)ether	111-44-4	mg/kg	0.0022		0.0000031		ND [0.26]	-
SW8270D	bis(2-Chloroisopropyl)ether	108-60-1	mg/kg					ND [0.26]	-
SW8270D	bis-(2-Ethylhexyl)phthalate	117-81-7	mg/kg			1.1		0.117 [0.26] J	-
SW8270D	Carbazole	86-74-8	mg/kg					ND [0.26]	-
SW8270D	Chrysene	218-01-9	mg/kg	360		1.1		ND [0.26]	-
SW8270D	Dibenzo(a,h)anthracene	53-70-3	mg/kg	0.49*		0.011		ND [0.26]	-
SW8270D	Dibenzofuran	132-64-9	mg/kg	11		0.68		ND [0.26]	-
SW8270D	Diethyl phthalate	84-66-2	mg/kg	130		12		ND [0.26]	-
SW8270D	Dimethyl phthalate	131-11-3	mg/kg	1100				ND [0.26]	-
SW8270D	Di-n-butyl phthalate	84-74-2	mg/kg	80		9.2		ND [0.26]	-
SW8270D	Di-n-octyl phthalate	117-84-0	mg/kg	3100*				ND [0.26]	-
SW8270D	Fluoranthene	206-44-0	mg/kg	1400		160		ND [0.26]	-
SW8270D	Fluorene	86-73-7	mg/kg	220		27		ND [0.26]	-
SW8270D	Hexachlorobenzene	118-74-1	mg/kg	0.047	0.013		2.6	ND [0.26]	-
SW8270D	Hexachlorobutadiene	87-68-3	mg/kg	0.12		0.0017	10	ND [0.26]	-
SW8270D	Hexachlorocyclopentadiene	77-47-4	mg/kg	1.3	0.16			ND [0.729]	-
SW8270D	Hexachloroethane	67-72-1	mg/kg	0.21		0.0029	60	ND [0.26]	-
SW8270D	Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	4.9*		0.12		ND [0.26]	-
SW8270D	Isophorone	78-59-1	mg/kg	3.1		0.023		ND [0.26]	-
SW8270D	Naphthalene	91-20-3	mg/kg	20		0.00047		ND [0.26]	-
SW8270D	Nitrobenzene	98-95-3	mg/kg	0.094		0.000079	40	ND [0.26]	-
SW8270D	n-Nitrosodimethylamine	62-75-9	mg/kg	0.000053		0.0000001		ND [0.26]	-
SW8270D	n-Nitrosodi-n-propylamine	621-64-7	mg/kg	0.0011		0.0000072		ND [0.26]	-
SW8270D	n-Nitrosodiphenylamine	86-30-6	mg/kg	15		0.075		ND [0.26]	-

2010 Stockpile and Manhole Waste Results

							Loc ID	TAKU-W06	TAKU-TB02
							Sample ID	10FWA-TAKU-SO-W06	10FWA-TAKU-TB02
							Lab Sample ID	1104992008	1104992009
							Matrix	SO	SO
							Sample Date	8/10/2010	8/10/2010
							Laboratory	SGSA	SGSA
							QA/QC	Primary	Trip Blank
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	EPA MCL Criteria <sup>2</sup>	EPA Risk Criteria <sup>3</sup>	20 Times TCLP Action Level <sup>4</sup>		
SW8270D	Pentachlorophenol	87-86-5	mg/kg	0.047	0.01		2000	ND [2.08]	-
SW8270D	Phenanthrene	85-01-8	mg/kg	3000				ND [0.26]	-
SW8270D	Phenol	108-95-2	mg/kg	68		6.3		ND [0.26]	-
SW8270D	Pyrene	129-00-0	mg/kg	1000		120		ND [0.26]	-
SW8330	1,3,5-Trinitrobenzene	99-35-4	mg/kg	19		3.9		ND [0.23]	-
SW8330	1,3-Dinitrobenzene	99-65-0	mg/kg	0.02		0.0033		ND [0.23]	-
SW8330	2,4,6-Trinitrotoluene	118-96-7	mg/kg	0.49		0.013		ND [0.23]	-
SW8330	2,4-Dinitrotoluene	121-14-2	mg/kg	0.0093		0.00029	2.6	ND [0.23]	-
SW8330	2,6-Dinitrotoluene	606-20-2	mg/kg	0.0094		0.05		ND [0.23]	-
SW8330	2-Amino-4,6-dinitrotoluene	35572-78-2	mg/kg	0.029		0.056		ND [0.23]	-
SW8330	2-Nitrotoluene	88-72-2	mg/kg	0.025		0.00029		ND [0.23]	-
SW8330	3-Nitrotoluene	99-08-1	mg/kg					ND [0.47]	-
SW8330	4-Amino-2,6-dinitrotoluene	19406-51-0	mg/kg	4.9		0.0034		ND [0.23]	-
SW8330	4-Nitrotoluene	99-99-0	mg/kg	0.029		0.056		ND [0.38]	-
SW8330	ahydro-1,3,5-trinitro-1,3,5-tria	121-82-4	mg/kg	0.34		0.0039		ND [0.24]	-
SW8330	thyl-2,4,6-trinitrophenylnitram	479-45-8	mg/kg	0.04		0.00023		ND [0.47]	-
SW8330	Nitrobenzene	98-95-3	mg/kg	4.5		1.4	40	ND [0.23]	-
SW8330	o-1,3,5,7-tetranitro-1,3,5,7-te	2691-41-0	mg/kg	0.094		0.000079		ND [0.23]	-
SW9034	Reactive Sulfide	18496-25-8	mg/kg					-	-

Notes:

<sup>1</sup> 18 AAC 75, Table B1 and B2, Migration to Groundwater except when noted (ADEC 2008).

<sup>2</sup> EPA Region 9 PRGs, MCL (EPA May 2010)

<sup>3</sup> EPA Region 9 PRGs, Risk criteria where MCL is not provided (EPA May 2010)

<sup>4</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

\* 18 AAC 75, Table B1 and B2, Under 40 inch Direct Contact (Chloroethane value is Outdoor Inhalation) (ADEC 2008).

- = not analyzed

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds ADEC and/or EPA criteria

For data qualifier definitions see the data quality assessment.

Taku Stockpile and Manhole 2010 ADEC Exceedances

				Loc ID	TAKU-W06
				Sample ID	10FWA-TAKU-SO-W06
				Lab Sample ID	1104992008
				Matrix	SO
				Sample Date	8/10/2010
				Laboratory	SGSA
				QA/QC	Primary
Method	Analyte	CAS Number	Units	ADEC Criteria <sup>1</sup>	
SW6020	Arsenic	7440-38-2	mg/Kg	3.9	<b>5 [1.02]</b>

Notes:

<sup>1</sup> 18 AAC 75, Table B1 and B2, Migration to Groundwater except when noted (ADEC 2008).

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds ADEC criteria

For data qualifier definitions see the data quality assessment.

Taku Stockpile and Manhole 2010 EPA Exceedances

					Loc ID	TAKU-W06
					Sample ID	10FWA-TAKU-SO-W06
					Lab Sample ID	1104992008
					Matrix	SO
					Sample Date	8/10/2010
					Laboratory	SGSA
					QA/QC	Primary
Method	Analyte	CAS Number	Units	EPA Criteria <sup>1</sup>		
SW6020	Arsenic	7440-38-2	mg/Kg	0.29		<b>5 [1.02]</b>

Notes:

<sup>1</sup> EPA Region 9 PRGs, MCL Criteria except when noted (EPA May 2010)

<sup>2</sup> EPA Region 9 PRGs, Risk Based Criteria (EPA May 2010)

[ ] = limit of quantitation

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA - SGS Laboratories, Anchorage

SO - Soil

**bold** = exceeds EPA criteria

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 49 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	B49-POL 09FCSB49-WW-W01 1106788007 WW 9/30/2010 SGSA Primary	B49-POL 09FCSB49-WW-W01 1106788007 WW 9/30/2010 SGSA Primary	B49-POL 09FCSB49-WW-W01 22004-4 WW 9/30/2010 TATW Primary	TB-02 09FCSB49-TB02 1106788008 WW 9/30/2010 SGSA Trip Blank
Method	Analyte	Units	RCRA TCLP Concentration <sup>1</sup>				
AK101	Gasoline Range Organics	mg/L		-	1.97 [1]	-	ND [0.1]
AK102	Diesel Range Organics	mg/L		-	38.2 [4.23]	-	-
AK103	Residual Range Organics	mg/L		-	44.3 [2.65]	-	-
SW6020 (TCLP)	Arsenic	mg/L	5	ND [2.5]	-	-	-
SW6020 (TCLP)	Barium	mg/L	100	ND [5]	-	-	-
SW6020 (TCLP)	Cadmium	mg/L	1	ND [1]	-	-	-
SW6020 (TCLP)	Chromium	mg/L	5	ND [4]	-	-	-
SW6020 (TCLP)	Lead	mg/L	5	ND [1]	-	-	-
SW6020 (TCLP)	Selenium	mg/L	1	ND [1]	-	-	-
SW6020 (TCLP)	Silver	mg/L	5	ND [0.5]	-	-	-
SW7470A (TCLP)	Mercury	mg/L	0.2	ND [0.002]	-	-	-
SW8081B (TCLP)	Chlordane	mg/L	0.03	ND [0.01]	-	-	-
SW8081B (TCLP)	Endrin	mg/L	0.02	ND [0.0003]	-	-	-
SW8081B (TCLP)	gamma-BHC (Lindane)	mg/L		ND [0.0003]	-	-	-
SW8081B (TCLP)	Heptachlor	mg/L		ND [0.0003]	-	-	-
SW8081B (TCLP)	Heptachlor epoxide	mg/L		ND [0.0003]	-	-	-
SW8081B (TCLP)	Methoxychlor	mg/L	10	ND [0.0003]	-	-	-
SW8081B (TCLP)	Toxaphene	mg/L	0.5	ND [0.02]	-	-	-
SW8082A	PCB-1016 (Aroclor 1016)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1221 (Aroclor 1221)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1232 (Aroclor 1232)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1242 (Aroclor 1242)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1248 (Aroclor 1248)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1254 (Aroclor 1254)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1260 (Aroclor 1260)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1262 (Aroclor 1262)	mg/L		-	ND [0.000115]	-	-
SW8082A	PCB-1268 (Aroclor 1268)	mg/L		-	ND [0.000115]	-	-
SW8151A (TCLP)	2,4,5-T	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	2,4,5-TP (Silvex)	mg/L	1	-	-	ND [0.0025]	-
SW8151A (TCLP)	2,4-D	mg/L	10	-	-	ND [0.0025]	-
SW8151A (TCLP)	2,4-DB	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	4-Nitrophenol	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	Dalapon	mg/L		-	-	ND [0.004]	-
SW8151A (TCLP)	Dicamba	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	Dichlorprop	mg/L		-	-	ND [0.0025] JM-	-
SW8151A (TCLP)	Dinoseb	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	mg/L		-	-	ND [0.0025]	-
SW8151A (TCLP)	MCPA (2-(2-methyl-4-chlorophenoxy) propanoic acid)	mg/L		-	-	ND [0.0025]	-

2010 Taku Gardens Building 49 Waste Laboratory Results

		Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:		B49-POL 09FCSB49-WW-W01 1106788007 WW 9/30/2010 SGSA Primary	B49-POL 09FCSB49-WW-W01 1106788007 WW 9/30/2010 SGSA Primary	B49-POL 09FCSB49-WW-W01 22004-4 WW 9/30/2010 TATW Primary	TB-02 09FCSB49-TB02 1106788008 WW 9/30/2010 SGSA Trip Blank
Method	Analyte	Units	RCRA TCLP Concentration <sup>1</sup>				
SW8151A (TCLP)	Pentachlorophenol	mg/L	100	-	-	ND [0.0025]	-
SW8260B (TCLP)	1,1-Dichloroethene	mg/L	0.7	ND [0.2]	-	-	-
SW8260B (TCLP)	1,2-Dichloroethane	mg/L	0.5	ND [0.1]	-	-	-
SW8260B (TCLP)	1,4-Dichlorobenzene	mg/L	7.5	ND [0.1]	-	-	-
SW8260B (TCLP)	2-Butanone	mg/L	200	ND [2]	-	-	-
SW8260B (TCLP)	Benzene	mg/L	0.5	ND [0.08]	-	-	-
SW8260B (TCLP)	Carbon tetrachloride	mg/L	0.5	ND [0.2]	-	-	-
SW8260B (TCLP)	Chlorobenzene	mg/L	100	ND [0.1]	-	-	-
SW8260B (TCLP)	Chloroform	mg/L	6	ND [0.2]	-	-	-
SW8260B (TCLP)	Hexachlorobutadiene	mg/L	0.5	ND [0.2]	-	-	-
SW8260B (TCLP)	Tetrachloroethene (PCE)	mg/L	0.7	ND [0.2]	-	-	-
SW8260B (TCLP)	Trichloroethene (TCE)	mg/L	0.5	ND [0.2]	-	-	-
SW8260B (TCLP)	Vinyl chloride	mg/L	0.2	ND [0.2]	-	-	-
SW8260B (TCLP)	2,4,5-Trichlorophenol	mg/L	400	ND [0.1]	-	-	-
SW8260B (TCLP)	2,4,6-Trichlorophenol	mg/L	2	ND [0.1]	-	-	-
SW8260B (TCLP)	2,4-Dinitrotoluene	mg/L	0.131	ND [0.1]	-	-	-
SW8260B (TCLP)	2-Methylphenol (o-Cresol)	mg/L		ND [0.1]	-	-	-
SW8260B (TCLP)	3-Methylphenol/4-Methylphenol Coelution	mg/L		ND [0.2]	-	-	-
SW8260B (TCLP)	Hexachlorobenzene	mg/L	0.131	ND [0.1]	-	-	-
SW8260B (TCLP)	Hexachlorobutadiene	mg/L	0.5	ND [0.1]	-	-	-
SW8260B (TCLP)	Hexachloroethane	mg/L	3	ND [0.1]	-	-	-
SW8260B (TCLP)	Nitrobenzene	mg/L	2	ND [0.1]	-	-	-
SW8260B (TCLP)	Pentachlorophenol	mg/L	100	ND [0.5]	-	-	-
SW8270D (TCLP)	Pyridine	mg/L	5.01	ND [0.2]	-	-	-

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

- = not analyzed

[ ] = limit of quantitation (LOQ)

mg/L = milligram per liter

ND = nondetect

QA/QC - quality assurance/quality control

TATW-Test America Tacoma Washington

SGSA-SGS Anchorage

WW-Wastewater

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 15 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	BDLG15-03 08FCSBLDG15-03-SO-W01 22004-1 SO 9/30/2010 TATW Primary	BLD15-03 08FCSBLDG15-03-SO-W01 1106788001 SO 9/30/2010 SGSA Primary	BDLG15-01 08FCSBLDG15-01-SO-W02 22004-2 SO 9/30/2010 TATW Primary	BLD15-01 08FCSBLDG15-01-SO-W02 1106788002 SO 9/30/2010 SGSA Primary	BDLG15-04 08FCSBLDG15-04-SO-W03 22004-3 SO 9/30/2010 TATW Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>					
AK101	Gasoline Range Organics	mg/kg		-	1.66 [5.12] J	-	39.6 [5.17]	-
AK102	Diesel Range Organics	mg/kg		-	2130 [345]	-	24700 [1350]	-
AK103	Residual Range Organics	mg/kg		-	8700 [345]	-	24900 [1350]	-
SW6020	Arsenic	mg/kg	100	-	10.6 [1.1]	-	15.1 [1.04]	-
SW6020	Barium	mg/kg	2000	-	171 [0.33]	-	291 [0.311]	-
SW6020	Cadmium	mg/kg	20	-	1.22 [0.22]	-	1.44 [0.207]	-
SW6020	Chromium	mg/kg	100	-	21 [0.44]	-	35.6 [0.415]	-
SW6020	Lead	mg/kg	100	-	76.7 [0.22]	-	<b>104000 [104]</b>	-
SW6020	Selenium	mg/kg	20	-	0.413 [0.55] J	-	1.65 [0.518]	-
SW6020	Silver	mg/kg	100	-	0.11 [0.11]	-	0.726 [0.104]	-
SW7471B	Mercury	mg/kg	4	-	0.194 [0.0469]	-	0.02 [0.041] J	-
SW8081B	4,4'-DDD	mg/kg		-	0.0422 [0.0471] J	-	ND [0.254]	-
SW8081B	4,4'-DDE	mg/kg		-	0.119 [0.0471]	-	ND [0.254]	-
SW8081B	4,4'-DDT	mg/kg		-	0.843 [0.235]	-	ND [1.27]	-
SW8081B	Aldrin	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	alpha-BHC	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	alpha-Chlordane	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	beta-BHC	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	Chlordane	mg/kg	0.6	-	ND [1.18]	-	ND [6.35]	-
SW8081B	delta-BHC	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	Dieldrin	mg/kg		-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Endosulfan I	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	Endosulfan II	mg/kg		-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Endosulfan sulfate	mg/kg		-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Endrin	mg/kg	0.4	-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Endrin aldehyde	mg/kg		-	ND [0.235]	-	ND [1.27]	-
SW8081B	Endrin ketone	mg/kg		-	ND [0.118]	-	ND [0.635]	-
SW8081B	gamma-BHC (Lindane)	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	gamma-Chlordane	mg/kg		-	ND [0.0353]	-	ND [0.19]	-
SW8081B	Heptachlor	mg/kg		-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Heptachlor epoxide	mg/kg		-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Methoxychlor	mg/kg	200	-	ND [0.0471]	-	ND [0.254]	-
SW8081B	Toxaphene	mg/kg	10	-	ND [2.35]	-	ND [12.7]	-
SW8082A	PCB-1016 (Aroclor 1016)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1221 (Aroclor 1221)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1232 (Aroclor 1232)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1242 (Aroclor 1242)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1248 (Aroclor 1248)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1254 (Aroclor 1254)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1260 (Aroclor 1260)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1262 (Aroclor 1262)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8082A	PCB-1268 (Aroclor 1268)	mg/kg		-	ND [0.0589]	-	ND [0.317]	-
SW8151A	2,4,5-T	mg/kg		ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8151A	2,4,5-TP (Silvex)	mg/kg	20	ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8151A	2,4-D	mg/kg	200	ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8151A	2,4-DB	mg/kg		ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]

2010 Taku Gardens Building 15 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	BDLG15-03 08FCSBLDG15-03-SO-W01 22004-1 SO 9/30/2010 TATW Primary	BLD15-03 08FCSBLDG15-03-SO-W01 1106788001 SO 9/30/2010 SGSA Primary	BDLG15-01 08FCSBLDG15-01-SO-W02 22004-2 SO 9/30/2010 TATW Primary	BLD15-01 08FCSBLDG15-01-SO-W02 1106788002 SO 9/30/2010 SGSA Primary	BDLG15-04 08FCSBLDG15-04-SO-W03 22004-3 SO 9/30/2010 TATW Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>					
SW8151A	Dalapon	mg/kg		ND [0.028]	-	ND [0.032]	-	ND [0.027]
SW8151A	Dicamba	mg/kg		ND [0.019]	-	ND [0.021]	-	ND [0.018]
SW8151A	Dichlorprop	mg/kg		ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8151A	Dinoseb	mg/kg		ND [0.019]	-	ND [0.021]	-	ND [0.018]
SW8151A	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	mg/kg		ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8151A	MCPP (2-(2-methyl-4-chlorophenoxy) propanoic acid)	mg/kg		ND [0.0075]	-	ND [0.0085]	-	ND [0.0073]
SW8260B	1,1,1,2-Tetrachloroethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,1,1-Trichloroethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,1,2,2-Tetrachloroethane	mg/kg		-	ND [0.102]	-	ND [0.103]	-
SW8260B	1,1,2-Trichloroethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,1-Dichloroethane	mg/kg	14	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,1-Dichloroethene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,1-Dichloropropene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2,3-Trichlorobenzene	mg/kg		-	ND [0.102]	-	ND [0.103]	-
SW8260B	1,2,3-Trichloropropane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2,4-Trichlorobenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2,4-Trimethylbenzene	mg/kg		-	ND [0.102]	-	ND [0.103]	-
SW8260B	1,2-Dibromo-3-chloropropane	mg/kg		-	ND [0.205]	-	ND [0.207]	-
SW8260B	1,2-Dibromoethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2-Dichlorobenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2-Dichloroethane	mg/kg	10	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,2-Dichloropropane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,3,5-Trimethylbenzene	mg/kg		-	ND [0.0512]	-	0.194 [0.0517]	-
SW8260B	1,3-Dichlorobenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,3-Dichloropropane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	1,4-Dichlorobenzene	mg/kg	150	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	2,2-Dichloropropane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	2-Butanone	mg/kg	4000	-	ND [0.512]	-	ND [0.517]	-
SW8260B	2-Chlorotoluene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	2-Hexanone	mg/kg		-	ND [0.512]	-	ND [0.517]	-
SW8260B	4-Chlorotoluene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	4-Isopropyltoluene	mg/kg		-	ND [0.0512]	-	0.0626 [0.0517]	-
SW8260B	4-Methyl-2-pentanone	mg/kg		-	ND [0.512]	-	ND [0.517]	-
SW8260B	Acetone	mg/kg		-	ND [0.512]	-	ND [0.517]	-
SW8260B	Benzene	mg/kg	10	-	ND [0.0256]	-	ND [0.0259]	-
SW8260B	Bromobenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Bromochloromethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Bromodichloromethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Bromoform	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Bromomethane	mg/kg		-	ND [0.409]	-	ND [0.414]	-
SW8260B	Carbon disulfide	mg/kg		-	ND [0.205]	-	ND [0.207]	-
SW8260B	Carbon tetrachloride	mg/kg	10	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Chlorobenzene	mg/kg	2000	-	ND [0.0512]	-	ND [0.0517]	-

2010 Taku Gardens Building 15 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	BDLG15-03 08FCSBLDG15-03-SO-W01 22004-1 SO 9/30/2010 TATW Primary	BLD15-03 08FCSBLDG15-03-SO-W01 1106788001 SO 9/30/2010 SGSA Primary	BDLG15-01 08FCSBLDG15-01-SO-W02 22004-2 SO 9/30/2010 TATW Primary	BLD15-01 08FCSBLDG15-01-SO-W02 1106788002 SO 9/30/2010 SGSA Primary	BDLG15-04 08FCSBLDG15-04-SO-W03 22004-3 SO 9/30/2010 TATW Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>					
SW8260B	Chloroethane	mg/kg		-	ND [0.409]	-	ND [0.414]	-
SW8260B	Chloroform	mg/kg	120	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Chloromethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	cis-1,2-Dichloroethene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	cis-1,3-Dichloropropene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Dibromochloromethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Dibromomethane	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Dichlorodifluoromethane	mg/kg		-	ND [0.102]	-	ND [0.103]	-
SW8260B	Ethylbenzene	mg/kg		-	ND [0.0512]	-	0.0791 [0.0517]	-
SW8260B	Hexachlorobutadiene	mg/kg	10	-	ND [0.102]	-	ND [0.103]	-
SW8260B	Isopropylbenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Methylene chloride	mg/kg		-	ND [0.205]	-	ND [0.207]	-
SW8260B	Methyl-tert-butyl ether (MTBE)	mg/kg		-	ND [0.205]	-	ND [0.207]	-
SW8260B	Naphthalene	mg/kg		-	ND [0.102]	-	0.508 [0.103]	-
SW8260B	n-Butylbenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	n-Propylbenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	o-Xylene	mg/kg		-	ND [0.102]	-	0.331 [0.103]	-
SW8260B	sec-Butylbenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Styrene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	tert-Butylbenzene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Tetrachloroethene (PCE)	mg/kg	14	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Toluene	mg/kg		-	0.0358 [0.102] J	-	0.0889 [0.103] J	-
SW8260B	trans-1,2-Dichloroethene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	trans-1,3-Dichloropropene	mg/kg		-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Trichloroethene (TCE)	mg/kg	10	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Trichlorofluoromethane	mg/kg		-	ND [0.102]	-	ND [0.103]	-
SW8260B	Vinyl chloride	mg/kg	4	-	ND [0.0512]	-	ND [0.0517]	-
SW8260B	Xylene, Isomers m & p	mg/kg		-	ND [0.102]	-	0.739 [0.103]	-
SW8260B	Xylenes	mg/kg		-	ND [0.205]	-	1.07 [0.207]	-
SW8270D	1,2,4-Trichlorobenzene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	1,2-Dichlorobenzene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	1,3-Dichlorobenzene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	1,4-Dichlorobenzene	mg/kg	150	-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,4,5-Trichlorophenol	mg/kg	8000	-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,4,6-Trichlorophenol	mg/kg	40	-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,4-Dichlorophenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,4-Dimethylphenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,4-Dinitrophenol	mg/kg		-	ND [17.5]	-	ND [87.8]	-
SW8270D	2,4-Dinitrotoluene	mg/kg	2.6	-	ND [1.46]	-	ND [7.31]	-
SW8270D	2,6-Dinitrotoluene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2-Chloronaphthalene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2-Chlorophenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2-Methyl-4,6-dinitrophenol	mg/kg		-	ND [11.7]	-	ND [58.5]	-
SW8270D	2-Methylnaphthalene	mg/kg		-	ND [1.46]	-	13.8 [7.31]	-
SW8270D	2-Methylphenol (o-Cresol)	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	2-Nitroaniline	mg/kg		-	ND [1.46]	-	ND [7.31]	-

2010 Taku Gardens Building 15 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	BDLG15-03 08FCSBLDG15-03-SO-W01 22004-1 SO 9/30/2010 TATW Primary	BLD15-03 08FCSBLDG15-03-SO-W01 1106788001 SO 9/30/2010 SGSA Primary	BDLG15-01 08FCSBLDG15-01-SO-W02 22004-2 SO 9/30/2010 TATW Primary	BLD15-01 08FCSBLDG15-01-SO-W02 1106788002 SO 9/30/2010 SGSA Primary	BDLG15-04 08FCSBLDG15-04-SO-W03 22004-3 SO 9/30/2010 TATW Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>					
SW8270D	2-Nitrophenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	3,3'-Dichlorobenzidine	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	3-Methylphenol/4-Methylphenol Coelution	mg/kg		-	ND [5.84]	-	ND [29.3]	-
SW8270D	3-Nitroaniline	mg/kg		-	ND [2.92]	-	ND [14.6]	-
SW8270D	4-Bromophenyl phenyl ether	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	4-Chloro-3-methylphenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	4-Chloroaniline	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	4-Chlorophenyl phenyl ether	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	4-Nitroaniline	mg/kg		-	ND [17.5]	-	ND [87.8]	-
SW8270D	4-Nitrophenol	mg/kg		-	ND [5.84]	-	ND [29.3]	-
SW8270D	Acenaphthene	mg/kg		-	ND [1.46]	-	4.13 [7.31] J	-
SW8270D	Acenaphthylene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Aniline	mg/kg		-	ND [11.7]	-	ND [58.5]	-
SW8270D	Anthracene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Azobenzene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzo(a)anthracene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzo(a)pyrene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzo(b)fluoranthene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzo(g,h,i)perylene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzo(k)fluoranthene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzoic acid	mg/kg		-	ND [8.76]	-	ND [43.9]	-
SW8270D	Benzyl alcohol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Benzyl butyl phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	bis-(2-Chloroethoxy)methane	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	bis-(2-Chloroethyl)ether	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	bis(2-Chloroisopropyl)ether	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	bis-(2-Ethylhexyl)phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Carbazole	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Chrysene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Dibenzo(a,h)anthracene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Dibenzofuran	mg/kg		-	ND [1.46]	-	23.5 [7.31]	-
SW8270D	Diethyl phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Dimethyl phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Di-n-butyl phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Di-n-octyl phthalate	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Fluoranthene	mg/kg		-	ND [1.46]	-	33.2 [7.31]	-
SW8270D	Fluorene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Hexachlorobenzene	mg/kg	2.6	-	ND [1.46]	-	ND [7.31]	-
SW8270D	Hexachlorobutadiene	mg/kg	10	-	ND [1.46]	-	ND [7.31]	-
SW8270D	Hexachlorocyclopentadiene	mg/kg		-	ND [4.09]	-	ND [20.5]	-
SW8270D	Hexachloroethane	mg/kg	60	-	ND [1.46]	-	ND [7.31]	-
SW8270D	Indeno(1,2,3-cd)pyrene	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Isophorone	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Naphthalene	mg/kg		-	ND [1.46]	-	5.22 [7.31] J	-
SW8270D	Nitrobenzene	mg/kg	40	-	ND [1.46]	-	ND [7.31]	-

2010 Taku Gardens Building 15 Waste Laboratory Results

		Location ID:		BDLG15-03	BLD15-03	BDLG15-01	BLD15-01	BDLG15-04
		Sample ID:		08FCSBLDG15-03-SO-W01	08FCSBLDG15-03-SO-W01	08FCSBLDG15-01-SO-W02	08FCSBLDG15-01-SO-W02	08FCSBLDG15-04-SO-W03
		Lab Sample ID:		22004-1	1106788001	22004-2	1106788002	22004-3
		Matrix:		SO	SO	SO	SO	SO
		Sample Date:		9/30/2010	9/30/2010	9/30/2010	9/30/2010	9/30/2010
		Lab ID:		TATW	SGSA	TATW	SGSA	TATW
		QA/QC:		Primary	Primary	Primary	Primary	Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>					
SW8270D	n-Nitrosodimethylamine	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	n-Nitrosodi-n-propylamine	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	n-Nitrosodiphenylamine	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Pentachlorophenol	mg/kg	2000	-	ND [11.7]	-	ND [58.5]	-
SW8270D	Phenanthrene	mg/kg		-	ND [1.46]	-	88.5 [7.31]	-
SW8270D	Phenol	mg/kg		-	ND [1.46]	-	ND [7.31]	-
SW8270D	Pyrene	mg/kg		-	ND [1.46]	-	26.4 [7.31]	-

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

- = not analyzed

[ ] = limit of quantitation (LOQ)

**BOLD** = sample result exceeds 20 Times TCLP Action Level

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

TATW-Test America Tacoma Washington

SGSA-SGS Anchorage

SO - Soil

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 15 Waste Laboratory Results

		Location ID: Sample ID: BLD15-04 Lab Sample ID: 08FCSBLDG15-04-SO-W03 Matrix: SO Sample Date: 9/30/2010 Lab ID: SGSA QA/QC: Primary		TB01 08FCSBLDG15-TB01 1106788006 SO 9/30/2010 SGSA Trip Blank	
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
AK101	Gasoline Range Organics	mg/kg		1.64 [4.84] J	1.08 [2.52] J
AK102	Diesel Range Organics	mg/kg		5400 [550]	-
AK103	Residual Range Organics	mg/kg		4020 [550]	-
SW6020	Arsenic	mg/kg	100	12.1 [1.05]	-
SW6020	Barium	mg/kg	2000	146 [0.314]	-
SW6020	Cadmium	mg/kg	20	2.43 [0.21]	-
SW6020	Chromium	mg/kg	100	33.9 [0.419]	-
SW6020	Lead	mg/kg	100	122 [0.21]	-
SW6020	Selenium	mg/kg	20	0.449 [0.524] J	-
SW6020	Silver	mg/kg	100	0.145 [0.105]	-
SW7471B	Mercury	mg/kg	4	0.0205 [0.0448] J	-
SW8081B	4,4'-DDD	mg/kg		0.266 [0.0453]	-
SW8081B	4,4'-DDE	mg/kg		0.0553 [0.0453]	-
SW8081B	4,4'-DDT	mg/kg		1.77 [0.453]	-
SW8081B	Aldrin	mg/kg		ND [0.034]	-
SW8081B	alpha-BHC	mg/kg		ND [0.034]	-
SW8081B	alpha-Chlordane	mg/kg		ND [0.034]	-
SW8081B	beta-BHC	mg/kg		ND [0.034]	-
SW8081B	Chlordane	mg/kg	0.6	ND [1.13]	-
SW8081B	delta-BHC	mg/kg		ND [0.034]	-
SW8081B	Dieldrin	mg/kg		ND [0.0453]	-
SW8081B	Endosulfan I	mg/kg		ND [0.034]	-
SW8081B	Endosulfan II	mg/kg		ND [0.0453]	-
SW8081B	Endosulfan sulfate	mg/kg		ND [0.0453]	-
SW8081B	Endrin	mg/kg	0.4	ND [0.0453]	-
SW8081B	Endrin aldehyde	mg/kg		ND [0.453]	-
SW8081B	Endrin ketone	mg/kg		ND [0.113]	-
SW8081B	gamma-BHC (Lindane)	mg/kg		ND [0.034]	-
SW8081B	gamma-Chlordane	mg/kg		ND [0.034]	-
SW8081B	Heptachlor	mg/kg		ND [0.0453]	-
SW8081B	Heptachlor epoxide	mg/kg		ND [0.0453]	-
SW8081B	Methoxychlor	mg/kg	200	ND [0.0453]	-
SW8081B	Toxaphene	mg/kg	10	ND [2.27]	-
SW8082A	PCB-1016 (Aroclor 1016)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1221 (Aroclor 1221)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1232 (Aroclor 1232)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1242 (Aroclor 1242)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1248 (Aroclor 1248)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1254 (Aroclor 1254)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1260 (Aroclor 1260)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1262 (Aroclor 1262)	mg/kg		ND [0.0566]	-
SW8082A	PCB-1268 (Aroclor 1268)	mg/kg		ND [0.0566]	-
SW8151A	2,4,5-T	mg/kg		-	-
SW8151A	2,4,5-TP (Silvex)	mg/kg	20	-	-
SW8151A	2,4-D	mg/kg	200	-	-
SW8151A	2,4-DB	mg/kg		-	-

2010 Taku Gardens Building 15 Waste Laboratory Results

			Location ID: Sample ID: Lab Sample ID: Matrix: Sample Date: Lab ID: QA/QC:	BLD15-04 08FCSBLDG15-04-SO-W03 1106788003 SO 9/30/2010 SGSA Primary	TB01 08FCSBLDG15-TB01 1106788006 SO 9/30/2010 SGSA Trip Blank
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW8151A	Dalapon	mg/kg		-	-
SW8151A	Dicamba	mg/kg		-	-
SW8151A	Dichlorprop	mg/kg		-	-
SW8151A	Dinoseb	mg/kg		-	-
SW8151A	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	mg/kg		-	-
SW8151A	MCPP (2-(2-methyl-4-chlorophenoxy) propanoic acid)	mg/kg		-	-
SW8260B	1,1,1,2-Tetrachloroethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,1,1-Trichloroethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,1,2,2-Tetrachloroethane	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	1,1,2-Trichloroethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,1-Dichloroethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,1-Dichloroethene	mg/kg	14	ND [0.0484]	ND [0.0252]
SW8260B	1,1-Dichloropropene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,2,3-Trichlorobenzene	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	1,2,3-Trichloropropane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,2,4-Trichlorobenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,2,4-Trimethylbenzene	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	1,2-Dibromo-3-chloropropane	mg/kg		ND [0.194]	ND [0.101]
SW8260B	1,2-Dibromoethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,2-Dichlorobenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,2-Dichloroethane	mg/kg	10	ND [0.0484]	ND [0.0252]
SW8260B	1,2-Dichloropropane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,3,5-Trimethylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,3-Dichlorobenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,3-Dichloropropane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	1,4-Dichlorobenzene	mg/kg	150	ND [0.0484]	ND [0.0252]
SW8260B	2,2-Dichloropropane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	2-Butanone	mg/kg	4000	ND [0.484]	ND [0.252]
SW8260B	2-Chlorotoluene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	2-Hexanone	mg/kg		ND [0.484]	ND [0.252]
SW8260B	4-Chlorotoluene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	4-Isopropyltoluene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	4-Methyl-2-pentanone	mg/kg		ND [0.484]	ND [0.252]
SW8260B	Acetone	mg/kg		ND [0.484]	ND [0.252]
SW8260B	Benzene	mg/kg	10	ND [0.0242]	ND [0.0126]
SW8260B	Bromobenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Bromochloromethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Bromodichloromethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Bromoform	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Bromomethane	mg/kg		ND [0.387]	ND [0.202]
SW8260B	Carbon disulfide	mg/kg		ND [0.194]	ND [0.101]
SW8260B	Carbon tetrachloride	mg/kg	10	ND [0.0484]	ND [0.0252]
SW8260B	Chlorobenzene	mg/kg	2000	ND [0.0484]	ND [0.0252]

2010 Taku Gardens Building 15 Waste Laboratory Results

		Location ID: Sample ID: BLD15-04 Lab Sample ID: 08FCSBLDG15-04-SO-W03 Matrix: SO Sample Date: 9/30/2010 Lab ID: SGSA QA/QC: Primary		TB01 08FCSBLDG15-TB01 1106788006 SO 9/30/2010 SGSA Trip Blank	
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW8260B	Chloroethane	mg/kg		ND [0.387]	ND [0.202]
SW8260B	Chloroform	mg/kg	120	ND [0.0484]	ND [0.0252]
SW8260B	Chloromethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	cis-1,2-Dichloroethene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	cis-1,3-Dichloropropene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Dibromochloromethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Dibromomethane	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Dichlorodifluoromethane	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	Ethylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Hexachlorobutadiene	mg/kg	10	ND [0.0968]	ND [0.0504]
SW8260B	Isopropylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Methylene chloride	mg/kg		ND [0.194]	ND [0.101]
SW8260B	Methyl-tert-butyl ether (MTBE)	mg/kg		ND [0.194]	ND [0.101]
SW8260B	Naphthalene	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	n-Butylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	n-Propylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	o-Xylene	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	sec-Butylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Styrene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	tert-Butylbenzene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Tetrachloroethene (PCE)	mg/kg	14	ND [0.0484]	ND [0.0252]
SW8260B	Toluene	mg/kg		0.031 [0.0968] J	ND [0.0504]
SW8260B	trans-1,2-Dichloroethene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	trans-1,3-Dichloropropene	mg/kg		ND [0.0484]	ND [0.0252]
SW8260B	Trichloroethene (TCE)	mg/kg	10	ND [0.0484]	ND [0.0252]
SW8260B	Trichlorofluoromethane	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	Vinyl chloride	mg/kg	4	ND [0.0484]	ND [0.0252]
SW8260B	Xylene, Isomers m & p	mg/kg		ND [0.0968]	ND [0.0504]
SW8260B	Xylenes	mg/kg		ND [0.194]	ND [0.101]
SW8270D	1,2,4-Trichlorobenzene	mg/kg		ND [1.39]	-
SW8270D	1,2-Dichlorobenzene	mg/kg		ND [1.39]	-
SW8270D	1,3-Dichlorobenzene	mg/kg		ND [1.39]	-
SW8270D	1,4-Dichlorobenzene	mg/kg	150	ND [1.39]	-
SW8270D	2,4,5-Trichlorophenol	mg/kg	8000	ND [1.39]	-
SW8270D	2,4,6-Trichlorophenol	mg/kg	40	ND [1.39]	-
SW8270D	2,4-Dichlorophenol	mg/kg		ND [1.39]	-
SW8270D	2,4-Dimethylphenol	mg/kg		ND [1.39]	-
SW8270D	2,4-Dinitrophenol	mg/kg		ND [16.7]	-
SW8270D	2,4-Dinitrotoluene	mg/kg	2.6	ND [1.39]	-
SW8270D	2,6-Dinitrotoluene	mg/kg		ND [1.39]	-
SW8270D	2-Chloronaphthalene	mg/kg		ND [1.39]	-
SW8270D	2-Chlorophenol	mg/kg		ND [1.39]	-
SW8270D	2-Methyl-4,6-dinitrophenol	mg/kg		ND [11.1]	-
SW8270D	2-Methylnaphthalene	mg/kg		ND [1.39]	-
SW8270D	2-Methylphenol (o-Cresol)	mg/kg		ND [1.39]	-
SW8270D	2-Nitroaniline	mg/kg		ND [1.39]	-

2010 Taku Gardens Building 15 Waste Laboratory Results

		Location ID: Sample ID: BLD15-04 Lab Sample ID: 08FCSBLDG15-04-SO-W03 Matrix: SO Sample Date: 9/30/2010 Lab ID: SGSA QA/QC: Primary		TB01 08FCSBLDG15-TB01 1106788006 SO 9/30/2010 SGSA Trip Blank	
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW8270D	2-Nitrophenol	mg/kg		ND [1.39]	-
SW8270D	3,3'-Dichlorobenzidine	mg/kg		ND [1.39]	-
SW8270D	3-Methylphenol/4-Methylphenol Coelution	mg/kg		ND [5.55]	-
SW8270D	3-Nitroaniline	mg/kg		ND [2.78]	-
SW8270D	4-Bromophenyl phenyl ether	mg/kg		ND [1.39]	-
SW8270D	4-Chloro-3-methylphenol	mg/kg		ND [1.39]	-
SW8270D	4-Chloroaniline	mg/kg		ND [1.39]	-
SW8270D	4-Chlorophenyl phenyl ether	mg/kg		ND [1.39]	-
SW8270D	4-Nitroaniline	mg/kg		ND [16.7]	-
SW8270D	4-Nitrophenol	mg/kg		ND [5.55]	-
SW8270D	Acenaphthene	mg/kg		ND [1.39]	-
SW8270D	Acenaphthylene	mg/kg		ND [1.39]	-
SW8270D	Aniline	mg/kg		ND [11.1]	-
SW8270D	Anthracene	mg/kg		ND [1.39]	-
SW8270D	Azobenzene	mg/kg		ND [1.39]	-
SW8270D	Benzo(a)anthracene	mg/kg		ND [1.39]	-
SW8270D	Benzo(a)pyrene	mg/kg		ND [1.39]	-
SW8270D	Benzo(b)fluoranthene	mg/kg		ND [1.39]	-
SW8270D	Benzo(g,h,i)perylene	mg/kg		ND [1.39]	-
SW8270D	Benzo(k)fluoranthene	mg/kg		ND [1.39]	-
SW8270D	Benzoic acid	mg/kg		ND [8.33]	-
SW8270D	Benzyl alcohol	mg/kg		ND [1.39]	-
SW8270D	Benzyl butyl phthalate	mg/kg		ND [1.39]	-
SW8270D	bis-(2-Chloroethoxy)methane	mg/kg		ND [1.39]	-
SW8270D	bis-(2-Chloroethyl)ether	mg/kg		ND [1.39]	-
SW8270D	bis(2-Chloroisopropyl)ether	mg/kg		ND [1.39]	-
SW8270D	bis-(2-Ethylhexyl)phthalate	mg/kg		1.62 [1.39]	-
SW8270D	Carbazole	mg/kg		ND [1.39]	-
SW8270D	Chrysene	mg/kg		ND [1.39]	-
SW8270D	Dibenzo(a,h)anthracene	mg/kg		ND [1.39]	-
SW8270D	Dibenzofuran	mg/kg		ND [1.39]	-
SW8270D	Diethyl phthalate	mg/kg		ND [1.39]	-
SW8270D	Dimethyl phthalate	mg/kg		ND [1.39]	-
SW8270D	Di-n-butyl phthalate	mg/kg		ND [1.39]	-
SW8270D	Di-n-octyl phthalate	mg/kg		ND [1.39]	-
SW8270D	Fluoranthene	mg/kg		ND [1.39]	-
SW8270D	Fluorene	mg/kg		ND [1.39]	-
SW8270D	Hexachlorobenzene	mg/kg	2.6	ND [1.39]	-
SW8270D	Hexachlorobutadiene	mg/kg	10	ND [1.39]	-
SW8270D	Hexachlorocyclopentadiene	mg/kg		ND [3.89]	-
SW8270D	Hexachloroethane	mg/kg	60	ND [1.39]	-
SW8270D	Indeno(1,2,3-cd)pyrene	mg/kg		ND [1.39]	-
SW8270D	Isophorone	mg/kg		ND [1.39]	-
SW8270D	Naphthalene	mg/kg		ND [1.39]	-
SW8270D	Nitrobenzene	mg/kg	40	ND [1.39]	-

2010 Taku Gardens Building 15 Waste Laboratory Results

		Location ID: BLD15-04		TB01	
		Sample ID: 08FCSBLDG15-04-SO-W03		08FCSBLDG15-TB01	
		Lab Sample ID: 1106788003		1106788006	
		Matrix: SO		SO	
		Sample Date: 9/30/2010		9/30/2010	
		Lab ID: SGSA		SGSA	
		QA/QC: Primary		Trip Blank	
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW8270D	n-Nitrosodimethylamine	mg/kg		ND [1.39]	-
SW8270D	n-Nitrosodi-n-propylamine	mg/kg		ND [1.39]	-
SW8270D	n-Nitrosodiphenylamine	mg/kg		ND [1.39]	-
SW8270D	Pentachlorophenol	mg/kg	2000	ND [11.1]	-
SW8270D	Phenanthrene	mg/kg		ND [1.39]	-
SW8270D	Phenol	mg/kg		ND [1.39]	-
SW8270D	Pyrene	mg/kg		ND [1.39]	-

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteris

- = not analyzed

[ ] = limit of quantitation (LOQ)

**BOLD** = sample result exceeds 20 Times TCLP Action Level

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

TATW-Test America Tacoma Washington

SGSA-SGS Anchorage

SO - Soil

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 15 Waste - 20 Times TCLP Action Level Exceedances

		Location ID:		BLD15-01	BLD15-04
		Sample ID:		08FCSBLDG15-01-SO-W02	08FCSBLDG15-04-SO-W03
		Lab Sample ID:		1106788002	1106788003
		Matrix:		SO	SO
		Sample Date:		9/30/2010	9/30/2010
		Lab ID:		SGSA	SGSA
		QA/QC:		Primary	Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW6020	Lead	mg/kg	100	<b>104000 [104]</b>	<b>122 [0.21]</b>

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

- = not analyzed

[ ] = limit of quantitation (LOQ)

**BOLD** = sample result exceeds 20 Times TCLP Action Level

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA-SGS Anchorage

SO - Soil

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 15 Waste - TCLP Laboratory Results and Exceedances

Method	Analyte	Units	RCRA TCLP Concentration <sup>1</sup>	BLDG15-01 08FCSBLDG15-01-SO-W02 1106788010 WL 10/18/2010 SGSA Primary	BLDG15-04 08FCSBLDG15-04-SO-W03 1106788011 WL 9/30/2010 SGSA Primary
SW6020	Lead	mg/L	5	<b>99.1 [0.05]</b>	0.0576 [0.05]

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

- = not analyzed

[ ] = limit of quantitation (LOQ)

**BOLD** = sample result exceeds RCRA TCLP Concentration

mg/L = milligram per liter

ND = nondetect

QA/QC - quality assurance/quality control

SGSA-SGS Anchorage

WL-Aqueous

For data qualifier definitions see the data quality assessment.

2010 Taku Gardens Building 22 Waste Laboratory Results

				Location ID:	BLDG22-2
				Sample ID:	08FCS-BLDG22-2-SO-W01
				Lab Sample ID:	1106833001
				Matrix:	SO
				Sample Date:	8/26/2010
				Lab ID:	SGSA
				QA/QC:	Primary
Method	Analyte	Units	20 Times TCLP Action Level <sup>1</sup>		
SW6020	Arsenic	mg/kg	100	ND [0.972]	
SW6020	Barium	mg/kg	2000	11 [0.292]	
SW6020	Cadmium	mg/kg	20	0.172 [0.194] J	
SW6020	Chromium	mg/kg	100	1.56 [0.389]	
SW6020	Lead	mg/kg	100	11.2 [0.194]	
SW6020	Selenium	mg/kg	20	ND [0.486]	
SW6020	Silver	mg/kg	100	0.252 [0.0972]	
SW7471B	Mercury	mg/kg	4	ND [0.0405] JH	
SW8082A	PCB-1016 (Aroclor 1016)	mg/kg		ND [2.05]	
SW8082A	PCB-1221 (Aroclor 1221)	mg/kg		ND [2.05]	
SW8082A	PCB-1232 (Aroclor 1232)	mg/kg		ND [2.05]	
SW8082A	PCB-1242 (Aroclor 1242)	mg/kg		ND [2.05]	
SW8082A	PCB-1248 (Aroclor 1248)	mg/kg		ND [2.05]	
SW8082A	PCB-1254 (Aroclor 1254)	mg/kg		ND [2.05]	
SW8082A	PCB-1260 (Aroclor 1260)	mg/kg		4.78 [2.05]	
SW8082A	PCB-1262 (Aroclor 1262)	mg/kg		ND [2.05]	
SW8082A	PCB-1268 (Aroclor 1268)	mg/kg		ND [2.05]	

Notes:

<sup>1</sup> Table1, Maximum Concentration of Contaminants for the Toxicity Characteristic (McCoy).

– = not analyzed

[ ] = limit of quantitation (LOQ)

mg/kg = milligram per kilogram

ND = nondetect

QA/QC - quality assurance/quality control

SGSA-SGS Anchorage

SO - Soil

For data qualifier definitions see the data quality assessment.

**Exhibit 2B**  
**ADEC Laboratory Data Review Checklists**

## Laboratory Data Review Checklist

Completed by:

Title:  Date:

CS Report Name:  Report Date:

Consultant Firm:

Laboratory Name:  Laboratory Report Number:

ADEC File Number:  ADEC RecKey Number:

1. Laboratory

- a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?  
 Yes  No  NA (Please explain.)      Comments:

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?  
 Yes  No  NA (Please explain.)      Comments:

2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)?  
 Yes  No  NA (Please explain.)      Comments:

- b. Correct analyses requested?  
 Yes  No  NA (Please explain.)      Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?  
 Yes  No  NA (Please explain.)      Comments:

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes No NA (Please explain.)

Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes No NA (Please explain.)

Comments:

All samples were received by the laboratory in good condition.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes No NA (Please explain.)

Comments:

Cooler temp blank received in Anchorage was less than 2°C, but there was no evidence of the sample freezing. Data was not affected or qualified.

e. Data quality or usability affected? (Please explain.)

Comments:

Data quality or usability was not affected.

#### 4. Case Narrative

a. Present and understandable?

Yes No NA (Please explain.)

Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes No NA (Please explain.)

Comments:

QC failures are discussed in the relevant sections of this checklist.

c. Were all corrective actions documented?

Yes No NA (Please explain.)

Comments:

Corrective actions were not necessary.

d. What is the effect on data quality/usability according to the case narrative?

Comments:

For effects on data quality, see the checklist below. All data is usable according to the case narrative.

#### 5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes No NA (Please explain.)

Comments:

b. All applicable holding times met?  
Yes No NA (Please explain.)

Comments:

c. All soils reported on a dry weight basis?  
Yes No NA (Please explain.)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?  
Yes No NA (Please explain.)

Comments:

Samples were analyzed for waste characteristics to determine disposal method. ADEC limits do not apply to these samples.

e. Data quality or usability affected?

Comments:

No – Data usable as reported.

## 6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?  
Yes No NA (Please explain.)

Comments:

ii. All method blank results less than PQL?  
Yes No NA (Please explain.)

Comments:

Method blank results were evaluated at 1/2 LOQ (PQL) per project QAPP. All method blank concentrations were less than 1/2 LOQ.

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?  
Yes No NA (Please explain.)

Comments:

All method blank concentrations were less than 1/2 LOQ.

v. Data quality or usability affected? (Please explain.)

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No  NA (Please explain.)                      Comments:

One LCS and LCSD was reported per matrix, analysis and 20 samples for AK methods. One LCS was reported for other organic methods, but an LCSD was not reported if an MS/MSD was reported in the batch to show precision.

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  NA (Please explain.)                      Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  NA (Please explain.)                      Comments:

**SW8151:**

LCS failed high for Dichlorprop (analysis by Test America, Tacoma).

MS failed low for Dichlorprop in sample 09FCSB49-WW-W01 (analysis by Test America, Tacoma).

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  NA (Please explain.)                      Comments:

**MS/MSD RPD:**

**SW8270** - MS/MSD RPD was greater than 30% for Hexachlorocyclopentadiene (37%) and n-Nitrosodimethylamine (90%).

**SW8082** - MS/MSD RPD was greater than 30% for PCB-1260 (Aroclor 1260) (37%).

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

**SW8151 %R:**

**LCS** failed high for Dichlorprop (analysis by Test America, Tacoma). Sample 09FCSB49-WW-W01 was non-detect, therefore not affected.

**MS** failed low for Dichlorprop in sample 09FCSB49-WW-W01 (analysis by Test America, Tacoma). The sample result was non-detect and may be biased low.

**MS/MSD RPD:**

**SW8270** - MS/MSD RPD for sample 08FCSBLDG15-04-SO-WO3 was greater than 30% for Hexachlorocyclopentadiene (37%) and n-Nitrosodimethylamine (90%). The MS and MSD had a dilution factor of 5, therefore the calculated RPD is not valid.

**SW8082** - MS/MSD RPD for sample 08FCSBLDG15-04-SO-WO3 was greater than 30% for PCB-1260 (Aroclor 1260) (149%). Lab is checking possible dilution factor error. The MS and MSD had a dilution factor of 10, therefore the calculated RPD is not valid.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  NA (Please explain.)

Comments:

**SW8151 %R:**

**MS** failed low for Dichlorprop in sample 09FCSB49-WW-W01 (analysis by Test America, Tacoma). The sample result was non-detect and was qualified "JM-" to indicate the result may be biased low.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

**SW8151 %R:**

**MS** failed low for Dichlorprop in sample 09FCSB49-WW-W01 (analysis by Test America, Tacoma). The sample result is considered usable, but may be biased low.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes  No  NA (Please explain.)

Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes  No  NA (Please explain.)

Comments:

**SW8270:** Surrogates, 2-Fluorobiphenyl and Terphenyl-d14, failed QSM limits high in sample 08FCSBLDG15-01-SO-WO2.

**SW8081:** Surrogate, 2,4,5,6-Tetrachloro-meta-xylene, failed laboratory limits low in sample 09FCSB49-WW-W01.

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes  No  NA (Please explain.)

Comments:

**SW8270:** Surrogates, 2-Fluorobiphenyl and Terphenyl-d14, failed QSM limits high in sample 08FCSBLDG15-01-SO-WO2. Sample had a dilution factor of 5, therefore qualification is not required.

**SW8081:** Surrogate, 2,4,5,6-Tetrachloro-meta-xylene, failed laboratory limits low in sample 09FCSB49-WW-W01. Surrogate recovery did not fail QSM criteria, therefore sample was not qualified.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Data quality or usability was not affected.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes  No  NA (Please explain.)

Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes  No  NA (Please explain.)

Comments:

iii. All results less than PQL?

Yes  No  NA (Please explain.)

Comments:

Trip blank results were evaluated at ½ LOQ (PQL) per project QAPP.

iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples?  
 Yes  No  NA (Please explain.)      Comments:

Field duplicates not submitted with this SDG; samples are for waste disposal information only and not for investigative or remedial action.

- ii. Submitted blind to lab?  
 Yes  No  NA (Please explain.)      Comments:

A Field Duplicate was not submitted with this SDG.

- iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

- Yes  No  NA (Please explain.)      Comments:

A Field Duplicate was not submitted with this SDG.

- iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Data usability was not affected.

f. Decontamination or Equipment Blank (If not used explain why).

- Yes  No  NA (Please explain.)      Comments:

Dedicated sampling equipment used to collect samples.

- i. All results less than PQL?  
 Yes  No  NA (Please explain.)      Comments:

Decontamination or equipment blanks not submitted with this SDG.

- ii. If above PQL, what samples are affected?  
Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No  NA (Please explain.)

Comments:

All data qualifiers are defined in the DQA.

## Laboratory Data Review Checklist

Completed by:

Title:  Date:

CS Report Name:  Report Date:

Consultant Firm:

Laboratory Name:  Laboratory Report Number:

ADEC File Number:  ADEC RecKey Number:

1. Laboratory

- a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?  
 Yes  No  NA (Please explain.)      Comments:

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?  
 Yes  No  NA (Please explain.)      Comments:

2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)?  
 Yes  No  NA (Please explain.)      Comments:

- b. Correct analyses requested?  
 Yes  No  NA (Please explain.)      Comments:

3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?  
 Yes  No  NA (Please explain.)      Comments:

- b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?  
 Yes  No  NA (Please explain.)      Comments:

- c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?  
 Yes  No  NA (Please explain.)                      Comments:

All samples were received by the laboratory in good condition.

- d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?  
 Yes  No  NA (Please explain.)                      Comments:

Cooler temp blank received in Fairbanks was less than 2°C, but there was no evidence of the sample freezing. Data was not affected or qualified.

- e. Data quality or usability affected? (Please explain.)                      Comments:

Data quality or usability was not affected.

4. Case Narrative

- a. Present and understandable?  
 Yes  No  NA (Please explain.)                      Comments:

- b. Discrepancies, errors or QC failures identified by the lab?  
 Yes  No  NA (Please explain.)                      Comments:

QC failures are discussed in the relevant sections of this checklist.

- c. Were all corrective actions documented?  
 Yes  No  NA (Please explain.)                      Comments:

Corrective actions were not necessary.

- d. What is the effect on data quality/usability according to the case narrative?                      Comments:

For data quality effects see the checklist below. All data is usable according to the case narrative.

5. Samples Results

- a. Correct analyses performed/reported as requested on COC?  
 Yes  No  NA (Please explain.)                      Comments:

b. All applicable holding times met?  
 Yes  No  NA (Please explain.)

Comments:

Mercury by method SW7471 was run 26 days past hold time for sample 08FCS-BLDG22-2-SO-W01. Sample was analyzed within twice the hold time and qualified "JH" to indicate the result is considered an estimate.

c. All soils reported on a dry weight basis?  
 Yes  No  NA (Please explain.)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?  
 Yes  No  NA (Please explain.)

Comments:

Samples were analyzed for waste characteristics to determine disposal method. ADEC limits do not apply to these samples.

e. Data quality or usability affected?

Comments:

No – Data usable as reported.

## 6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?  
 Yes  No  NA (Please explain.)

Comments:

ii. All method blank results less than PQL?  
 Yes  No  NA (Please explain.)

Comments:

Method blank results were evaluated at 1/2 LOQ (PQL) per project QAPP. All method blank concentrations were less than 1/2 LOQ.

iii. If above PQL, what samples are affected?

Comments:

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?  
 Yes  No  NA (Please explain.)

Comments:

All method blank concentrations were less than 1/2 LOQ.

v. Data quality or usability affected? (Please explain.)

Comments:

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes  No  NA (Please explain.)

Comments:

ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes  No  NA (Please explain.)

Comments:

iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes  No  NA (Please explain.)

Comments:

iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes  No  NA (Please explain.)

Comments:

All LCS/LCSD and MS/MSD RPDs passed criteria.

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

**%R MS/MSD - SW7471 Mercury** - Batch MS and MSD failed high. The MS and MSD samples were not associated with this SDG.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes  No  NA (Please explain.)

Comments:

**%R MS/MSD - SW7471 Mercury** - The failed MS and MSD samples were not associated with this SDG.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:



iv. If above PQL, what samples are affected?

Comments:

v. Data quality or usability affected? (Please explain.)

Comments:

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes  No  NA (Please explain.)

Comments:

Field duplicates not submitted with this SDG; samples are for waste disposal information only and not for investigative or remedial action.

ii. Submitted blind to lab?

Yes  No  NA (Please explain.)

Comments:

A Field Duplicate was not submitted with this SDG.

iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$RPD (\%) = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2) / 2)} \times 100$$

Where  $R_1$  = Sample Concentration

$R_2$  = Field Duplicate Concentration

Yes  No  NA (Please explain.)

Comments:

A Field Duplicate was not submitted with this SDG.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

Data usability was not affected.

f. Decontamination or Equipment Blank (If not used explain why).

Yes  No  NA (Please explain.)

Comments:

Dedicated sampling equipment used to collect samples.

i. All results less than PQL?

Yes  No  NA (Please explain.)

Comments:

Decontamination or equipment blanks not submitted with this SDG.

ii. If above PQL, what samples are affected?

Comments:

iii. Data quality or usability affected? (Please explain.)

Comments:

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No  NA (Please explain.)

Comments:

## Laboratory Data Review Checklist

Completed by:

Title:  Date:

CS Report Name:

Report Date:

Consultant Firm:

Laboratory Name:  Laboratory Report Number:

ADEC File Number:  ADEC RecKey Number:

1. Laboratory

- a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?  
 Yes     No     NA (Please explain.)    Comments:

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?  
 Yes     No     NA (Please explain.)    Comments:

Herbicides and nitroaromatic explosives were analyzed by TestAmerica, Denver, Colorado. Ethylene glycol and propylene glycol analyses were performed by SGS, Wilmington, NC (Wilmington NC laboratory only has DoD approval for dioxin/furan analysis)

2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)?  
 Yes     No     NA (Please explain.)    Comments:

- b. Correct analyses requested?  
 Yes     No     NA (Please explain.)    Comments:

Ethylene and propylene glycol analyses were added after the fact and conveyed verbally to the laboratory.

3. Laboratory Sample Receipt Documentation

a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?

Yes     No     NA (Please explain.)    Comments:

One cooler was received in Fairbanks with a temperature of  $2.6^{\circ} \text{C}$ . Samples sent to SGS – Anchorage had a cooler temperature of  $2.4^{\circ} \text{C}$ ; the samples sent to TestAmerica in Denver, CO had a cooler temperature of  $0.4^{\circ} \text{C}$  and a temperature blank temperature of  $0.7^{\circ} \text{C}$ ; the samples sent to SGS – Wilmington, NC had a temperature of  $5.2^{\circ} \text{C}$ .

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes     No     NA (Please explain.)    Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes     No     NA (Please explain.)    Comments:

Samples received intact.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes     No     NA (Please explain.)    Comments:

No discrepancies noted.

e. Data quality or usability affected? (Please explain.)

Comments:

No. Samples usable as reported.

4. Case Narrative

a. Present and understandable?

Yes     No     NA (Please explain.)    Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes     No     NA (Please explain.)    Comments:

c. Were all corrective actions documented?

Yes     No     NA (Please explain.)    Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

There is no impact to the data based on the minor QC outliers.

Note that the CCV summary form for SVOC batch XXX23355/XMS5591 indicates that both aniline and 2,4-dinitrophenol had 0% recovery, which would have resulted in these compounds being rejected. Subsequent review of the raw data indicated that the recoveries were acceptable, and the laboratory was notified and the data package was reissued with the summary form corrected.

5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes     No     NA (Please explain.)

Comments:

b. All applicable holding times met?

Yes     No     NA (Please explain.)

Comments:

All hold times were met.

c. All soils reported on a dry weight basis?

Yes     No     NA (Please explain.)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes     No     NA (Please explain.)

Comments:

Samples were analyzed for waste characteristics to determine disposal method. ADEC limits do not apply to these samples.

e. Data quality or usability affected?

Comments:

No – Data usable as reported.

6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes     No     NA (Please explain.)

Comments:

- ii. All method blank results less than PQL?  
 Yes     No     NA (Please explain.)

Comments:

All method blank results less than their respective PQLs.

Herbicides: 580-21081 – MB dichloroprop 0.00239 J mg/Kg, 2,4-D 0.00275 J mg/Kg, Silvex 0.00223 J mg/Kg and 2,4,5-T 0.00189 J mg/Kg.

Metals: Bracketing CCBs Chromium 0.294 J µg/L (0.147 J mg/Kg)

- iii. If above PQL, what samples are affected?

Comments:

Not applicable (results not above PQL).

- iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?  
 Yes     No     NA (Please explain.)

Comments:

Samples not qualified by blank concentrations.

- v. Data quality or usability affected? (Please explain.)

Comments:

No – data usable as reported. Results qualified with a “B” may be false positives.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)  
 Yes     No     NA (Please explain.)

Comments:

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

- Yes     No     NA (Please explain.)

Comments:

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)
- Yes       No     NA (Please explain.)      Comments:

Note: If not discussed the LCS/LCSD and/or MS/MSD recoveries were acceptable

LCS:

VOC VMS11475, 981254: cis-1,2-dichloroethene (81%) lower than LCL (82 – 124%)

VOC VMS11477, 981319: MTBE recovery (134%) greater than the UCL (76 – 133%)

SVOC XXX23355/XMS5591, 980970: N-nitrosodimethylamine recovery (93%) greater than the UCL (45 – 90%).

Pesticides: XXX23353/XGC7133, 980847: Endrin ketone recovery (140%) greater than the UCL (65 – 135%).

Herbicides: 580-74680: 2,4-DB 126% recovery (35 – 115%)

MS/MSD:

SVOC XXX23355/XMS5591, 10FWA-TAKU-SO-W02 – MS recovery for pentachlorophenol (118%) slightly above UCL (56 – 117%)

Pesticides: XXX23353/XGC7137, 10FWA-TAKU-SO-W02 – 4,4'-DDE recoveries (44%/62%) less than LCL (70 – 125%). Endosulfan sulfate MS recovery (140%) greater than UCL (62 – 134%).

Herbicide 580-21018-2, 10FWA-TAKU-SO-W02 – MSD Dicamba (66%, 68 – 126%), dichloroprop (71%, 75 – 140%) less than their respective LCLs.

Metals MXX23377/MMS6615, 10FWA-TAKU-SO-W02 – MS/MSD chromium (128%/132%, 80 – 120%) recoveries greater than UCL. Lead MS 139% (greater than UCL of 80 – 120%).

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)
- Yes       No     NA (Please explain.)      Comments:

Note: If not discussed the LCS/LCSD and/or MS/MSD RPD values were acceptable

MS/MSD:

Pesticides: XXX23353/XGC7133, 10FWA-TAKU-SO-W02 – Lindane RPD (59%) greater than 30%.

Herbicides: 580-21018, 10FWA-TAKU-SO-W02 – Dinoseb RPD (41%), dichloroprop RPD (42%) greater than 30%.

Metals: MXX23377, MMS6615 Lead RPD 28%, greater than 20%

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

For LCS and/or LCSD recoveries that are lower than the LCL, results in all samples in the batch are affected. For LCS and/or LCSD recoveries that are greater than the UCL, only detected results from samples in the batch are affected. For LCS/LCSD RPD values that are out of acceptable limits, all samples in the batch are affected.

For MS and/or MSD recoveries that are lower than the LCL for organic parameters, only results in the parent sample are affected. For MS and/or MSD recoveries that are greater than the UCL for organic parameters, only the parent sample results are affected. For metals MS/MSD recoveries that are out of compliance, all samples in the digestion batch are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain.)    Comments:

VOC LCS: VMS11475, 981254 Data validation qualified all cis-1,2-dichloroethene results in batch as estimated with a possible low bias (coded "JL-") due to the low LCS recovery.

Pesticide MS/MSD: XXX23353/XGC7137, 10FWA-TAKU-SO-W02 – Data validation qualified the 4,4'-DDE result as estimated with a possible low bias (coded "JL-") due to the low MS/MSD recoveries.

Herbicide MS/MSD: 580-21018, 10FWA-TAKU-SO-W02 – Data validation qualified dicamba and dichloroprop as estimated with a possible low bias (coded "JL-") due to the low MSD recoveries.

Metals MS/MSD: MXX23377/MMS6615 Qualify the chromium and lead results in the batch as estimated (coded "JM+") due to the high MS and/or MSD recoveries.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

All results usable with qualifiers as noted above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes     No     NA (Please explain.)    Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes     No     NA (Please explain.)    Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes       No       NA (Please explain.)      Comments:

Surrogate recoveries acceptable.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Data usable as reported.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples? (If not, enter explanation below.)

Yes       No       NA (Please explain.)      Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC? (If not, a comment explaining why must be entered below)

Yes       No       NA (Please explain.)      Comments:

iii. All results less than PQL?

Yes       No       NA (Please explain.)      Comments:

All results less than their respective PQLs.

10FWA-TAKU-TB02: VOC – ND; GRO – ND

iv. If above PQL, what samples are affected?

Comments:

Compounds not detected in the TB sample.

v. Data quality or usability affected? (Please explain.)

Comments:

Data usable as reported.

e. Field Duplicate

- i. One field duplicate submitted per matrix, analysis and 10 project samples?  
 Yes     No     NA (Please explain.)    Comments:

Field duplicates not submitted with this SDG; samples are for waste disposal information only and not for investigative or remedial action.

- ii. Submitted blind to lab?  
 Yes     No     NA (Please explain.)    Comments:

Field duplicates not submitted with this SDG.

- iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

- Yes     No     NA (Please explain.)    Comments:

Field duplicates not submitted this SDG.

- iv. Data quality or usability affected? (Use the comment box to explain why or why not.)  
Comments:

No – Data usable as reported.

f. Decontamination or Equipment Blank (If not used explain why).

- Yes     No     NA (Please explain.)    Comments:

Dedicated sampling equipment used to collect samples.

- i. All results less than PQL?  
 Yes     No     NA (Please explain.)    Comments:

Equipment blanks not submitted with SDG.

- ii. If above PQL, what samples are affected?  
Comments:

Not applicable

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No  NA (Please explain.)

Comments:

Calibrations:

VOC: VMS11475 - CCV 981269 – Carbon disulfide 125% (80 – 120%), dichlorodifluoromethane 127% (80 – 120%). ND in associated samples; no qualifications.

VOC: VMS11477 – CCV 981337 – MTBE 134% (80 – 120%). ND in associated samples; no qualifications.

Pesticide: XXX23353, XGC7133 – CCV 982055 Endrin Ketone 128% (80 – 120%). ND in associated samples.

XXX23353, XGC7133 – CCV 982058 Endrin Ketone 130% (80 – 120%). ND in associated samples.

XXX23353, XGC7137 – CCV 981975 – Endosulfan sulfate 126% (80 – 120%). ND in associated samples.

XXX23353, XGC7137 – CCV 981976 – Endosulfan sulfate 125% (80 – 120%). ND in associated samples.

XXX23353, XGC7137 – CCV 981977 – Endosulfan sulfate 128% (80 – 120%). 4,4'-DDT 76% (80 – 120%). ND in associated samples. DDT not reported in associated samples. No qualifications.

XXX23353, XGC7138 – CCV 981982 – Methoxychlor 73% (80 – 120%), 4,4'-DDT 73% (80 – 120%). ND in associated samples. Methoxychlor and DDT not reported in associated samples; no qualifications.

Data Qualifiers are defined in the project Data Quality Assessment

## Laboratory Data Review Checklist

Completed by:

Title:  Date:

CS Report Name:

Report Date:

Consultant Firm:

Laboratory Name:  Laboratory Report Number:

ADEC File Number:  ADEC RecKey Number:

### 1. Laboratory

- a. Did an ADEC CS approved laboratory receive and perform all of the submitted sample analyses?  
 Yes     No     NA (Please explain.)    Comments:

- b. If the samples were transferred to another “network” laboratory or sub-contracted to an alternate laboratory, was the laboratory performing the analyses ADEC CS approved?  
 Yes     No     NA (Please explain.)    Comments:

Herbicides were analyzed by TestAmerica, Denver, Colorado.

### 2. Chain of Custody (COC)

- a. COC information completed, signed, and dated (including released/received by)?  
 Yes     No     NA (Please explain.)    Comments:

- b. Correct analyses requested?  
 Yes     No     NA (Please explain.)    Comments:

### 3. Laboratory Sample Receipt Documentation

- a. Sample/cooler temperature documented and within range at receipt ( $4^{\circ} \pm 2^{\circ} \text{C}$ )?  
 Yes     No     NA (Please explain.)    Comments:

One cooler was received in Fairbanks with a temperature of  $0.3^{\circ} \text{C}$ . Samples sent to SGS – Anchorage had a cooler temperature of  $0.7^{\circ} \text{C}$ ; the samples sent to TestAmerica in Denver, CO had a cooler temperature of  $0.4^{\circ} \text{C}$  and a temperature blank temperature of  $3.1^{\circ} \text{C}$ .

b. Sample preservation acceptable – acidified waters, Methanol preserved VOC soil (GRO, BTEX, Volatile Chlorinated Solvents, etc.)?

Yes     No     NA (Please explain.)                      Comments:

c. Sample condition documented – broken, leaking (Methanol), zero headspace (VOC vials)?

Yes     No     NA (Please explain.)                      Comments:

Samples received intact.

d. If there were any discrepancies, were they documented? For example, incorrect sample containers/preservation, sample temperature outside of acceptable range, insufficient or missing samples, etc.?

Yes     No     NA (Please explain.)                      Comments:

No discrepancies noted.

e. Data quality or usability affected? (Please explain.)

Comments:

No. Samples usable as reported.

#### 4. Case Narrative

a. Present and understandable?

Yes     No     NA (Please explain.)                      Comments:

b. Discrepancies, errors or QC failures identified by the lab?

Yes     No     NA (Please explain.)                      Comments:

c. Were all corrective actions documented?

Yes     No     NA (Please explain.)                      Comments:

d. What is the effect on data quality/usability according to the case narrative?

Comments:

There is no impact to the data based on the minor QC outliers.

#### 5. Samples Results

a. Correct analyses performed/reported as requested on COC?

Yes     No     NA (Please explain.)                      Comments:

b. All applicable holding times met?

Yes     No     NA (Please explain.)

Comments:

All hold times were met.

c. All soils reported on a dry weight basis?

Yes     No     NA (Please explain.)

Comments:

d. Are the reported PQLs less than the Cleanup Level or the minimum required detection level for the project?

Yes     No     NA (Please explain.)

Comments:

Samples were analyzed for waste characteristics to determine disposal method. ADEC limits do not apply to these samples.

e. Data quality or usability affected?

Comments:

No – Data usable as reported .

## 6. QC Samples

a. Method Blank

i. One method blank reported per matrix, analysis and 20 samples?

Yes     No     NA (Please explain.)

Comments:

ii. All method blank results less than PQL?

Yes     No     NA (Please explain.)

Comments:

All method blank results less than their respective PQLs.

iii. If above PQL, what samples are affected?

Comments:

Not applicable (results not above PQL).

iv. Do the affected sample(s) have data flags and if so, are the data flags clearly defined?

Yes     No     NA (Please explain.)

Comments:

Samples not qualified by blank concentrations.

v. Data quality or usability affected? (Please explain.)

Comments:

No – data usable as reported.

b. Laboratory Control Sample/Duplicate (LCS/LCSD)

- i. Organics – One LCS/LCSD reported per matrix, analysis and 20 samples? (LCS/LCSD required per AK methods, LCS required per SW846)

Yes     No     NA (Please explain.)                      Comments:

- ii. Metals/Inorganics – one LCS and one sample duplicate reported per matrix, analysis and 20 samples?

Yes     No     NA (Please explain.)                      Comments:

- iii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods: AK101 60%-120%, AK102 75%-125%, AK103 60%-120%; all other analyses see the laboratory QC pages)

Yes     No     NA (Please explain.)                      Comments:

Note: If not discussed the LCS/LCSD and/or MS/MSD recoveries were acceptable

LCS:

VOC VMS11704, 998686: MEK (141%, 61 – 140%), 2-hexanone (134%, 74 – 129%), acetone (148%, 62 – 134%) recoveries all higher than their respective UCLs.

SVOC XXX23916/XMS5731, 997766: 4-bromophenyl phenyl ether recovery (103%) greater than the UCL (53 – 102%).

MS/MSD:

VOC VMS11704, 10CSRI-SO-PC05: MEK (154%/142%, 61 – 140%), 2-hexanone (150%/141%, 74 – 129%), acetone (172%/158%, 62 – 134%) MS/MSD recoveries all higher than their respective UCLs.

SVOC XXX23916/XMS5731, 10CSRI-SO-PC05: 2,4,5-Trichlorophenol (111%/112%, 71 – 110%), 4-bromophenyl phenyl ether (105%/111%, 53 – 102%), acenaphthylene (102%/106%, 56 – 105%), dimethylphthalate (108%/111%, 59 – 110%), di-n-butylphthalate (106%/114%, 56 – 110%) MS and/or MSD recoveries were above their respective UCLs.

Metals MXX23666/MMS6750, 10CSRI-SO-PC05 – MS barium (134%, 80 – 120%) recovery greater than UCL.

- iv. Precision – All relative percent differences (RPD) reported and less than method or laboratory limits? And project specified DQOs, if applicable. RPD reported from LCS/LCSD, MS/MSD, and or sample/sample duplicate. (AK Petroleum methods 20%; all other analyses see the laboratory QC pages)

Yes     No     NA (Please explain.)                      Comments:

Note: If not discussed the LCS/LCSD and/or MS/MSD RPD values were acceptable

v. If %R or RPD is outside of acceptable limits, what samples are affected?

Comments:

For LCS and/or LCSD recoveries that are lower than the LCL, results in all samples in the batch are affected. For LCS and/or LCSD recoveries that are greater than the UCL, only detected results from samples in the batch are affected. For LCS/LCSD RPD values that are out of acceptable limits, all samples in the batch are affected.

For MS and/or MSD recoveries that are lower than the LCL for organic parameters, only results in the parent sample are affected. For MS and/or MSD recoveries that are greater than the UCL for organic parameters, only the parent sample results are affected. For metals MS/MSD recoveries that are out of compliance, all samples in the digestion batch are affected.

vi. Do the affected sample(s) have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain.)    Comments:

Metals MS/MSD: MXX23377/MMS6615 Qualify detected barium results in the batch as estimated (coded "JM+") due to the high MS recovery.

vii. Data quality or usability affected? (Use comment box to explain.)

Comments:

All results usable with qualifiers as noted above.

c. Surrogates – Organics Only

i. Are surrogate recoveries reported for organic analyses – field, QC and laboratory samples?

Yes     No     NA (Please explain.)    Comments:

ii. Accuracy – All percent recoveries (%R) reported and within method or laboratory limits? And project specified DQOs, if applicable. (AK Petroleum methods 50-150 %R; all other analyses see the laboratory report pages)

Yes     No     NA (Please explain.)    Comments:

iii. Do the sample results with failed surrogate recoveries have data flags? If so, are the data flags clearly defined?

Yes     No     NA (Please explain.)    Comments:

Surrogate recoveries acceptable.

iv. Data quality or usability affected? (Use the comment box to explain.)

Comments:

Data usable as reported.

d. Trip blank – Volatile analyses only (GRO, BTEX, Volatile Chlorinated Solvents, etc.): Water and Soil

i. One trip blank reported per matrix, analysis and for each cooler containing volatile samples?  
(If not, enter explanation below.)

Yes     No     NA (Please explain.)                      Comments:

ii. Is the cooler used to transport the trip blank and VOA samples clearly indicated on the COC?  
(If not, a comment explaining why must be entered below)

Yes     No     NA (Please explain.)                      Comments:

iii. All results less than PQL?

Yes     No     NA (Please explain.)                      Comments:

All results less than their respective PQLs.

10FWA-CSRI-TB01: VOC – methylene chloride 0.0391 J m/Kg; GRO – ND

iv. If above PQL, what samples are affected?

Comments:

Results not above PQL. All methylene chloride results less than five times the TB result were qualified with a “B” to indicate that the compound was detected in the associated TB and may be a false positive.

v. Data quality or usability affected? (Please explain.)

Comments:

Data usable as reported. Results qualified with a “B” may be false positives.

e. Field Duplicate

i. One field duplicate submitted per matrix, analysis and 10 project samples?

Yes     No     NA (Please explain.)                      Comments:

Field duplicates not submitted with this SDG; samples are for waste disposal information only and not for investigative or remedial action.

ii. Submitted blind to lab?

Yes     No     NA (Please explain.)

Comments:

Field duplicates not submitted with this SDG.

iii. Precision – All relative percent differences (RPD) less than specified DQOs?  
(Recommended: 30% water, 50% soil)

$$\text{RPD (\%)} = \text{Absolute value of: } \frac{(R_1 - R_2)}{((R_1 + R_2)/2)} \times 100$$

Where  $R_1$  = Sample Concentration  
 $R_2$  = Field Duplicate Concentration

Yes     No     NA (Please explain.)

Comments:

Field duplicates not submitted this SDG.

iv. Data quality or usability affected? (Use the comment box to explain why or why not.)

Comments:

No – Data usable as reported.

f. Decontamination or Equipment Blank (If not used explain why).

Yes     No     NA (Please explain.)

Comments:

Dedicated sampling equipment used to collect samples.

i. All results less than PQL?

Yes     No     NA (Please explain.)

Comments:

Equipment blanks not submitted with SDG.

ii. If above PQL, what samples are affected?

Comments:

Not applicable

iii. Data quality or usability affected? (Please explain.)

Comments:

Not applicable

7. Other Data Flags/Qualifiers (ACOE, AFCEE, Lab Specific, etc.)

a. Defined and appropriate?

Yes  No  NA (Please explain.)

Comments:

Calibrations:

VOC: VMS11704 - CCV 998704 – Acetone 148%, chloromethane 134%, vinyl chloride 131%, dichlorodifluoromethane 151%, MEK 141%, 2-Hexanone 134% (80 – 120%). ND in associated samples; no qualifications.

Pesticide: Several CCV compounds were recovered below their respective limits on one column but not on the other. Results reported from column that passed, no qualifications required.

Data Qualifiers are defined in the project Data Quality Assessment

**Exhibit 2C**

**Laboratory Data Deliverables**

*(Provided on CD in a separate electronic folder)*

**ATTACHMENT 3**  
**Waste Documentation**

**CERTIFICATE OF WEIGHT**

Contracting Capabilities for Organic Incineration Technologies



**OIT, Inc.** No. **3795**  
P.O. Box 55878  
North Pole, Alaska 99705  
(907) 488-4899 Fax: (907) 488-4823

Shipper \_\_\_\_\_ Contract 010-047  
Carrier AIT \_\_\_\_\_ Commodity Cont Soil  
W/B No. \_\_\_\_\_ Truck No. 785  
Origin FTWA \_\_\_\_\_ Destination OIT  
Driver ON  OFF  SD321

1:25P 10-12-10 1:25P 10-12-10  
000 ID 000 ID  
6039 CN 6039 CN  
86020 LB 86020 LB

24/36

1:32P 10-12-10 1:32P 10-12-10  
000 ID 000 ID  
6040 CN 6040 CN  
37300 LB 37300 LB

Driver's Signature:

Public Scale Certified and Inspected by Alaska Department of Commerce, Division of Weights & Measures

**CERTIFICATE OF WEIGHT**

Contracting Capabilities for Organic Incineration Technologies



**OIT, Inc.** No. **3794**  
P.O. Box 55878  
North Pole, Alaska 99705  
(907) 488-4899 Fax: (907) 488-4823

Shipper FTWW Contract 010-047  
Carrier AJT Commodity CONT S&L  
W/B No. \_\_\_\_\_ Truck No. T87  
Origin FTWW Destination OIT  
Driver  ON  OFF SD 316

12:45P 10-12-10	12:45P 10-12-10
000 ID	000 ID
6037 CN	6037 CN
83380 LB	83380 LB

12:53P 10-12-10	12:53P 10-12-10
000 ID	000 ID
6038 CN	6038 CN
37940 LB	37940 LB

22.72

Driver's Signature: [Signature]

Public Scale Certified and inspected by Alaska Department of Commerce, Division of Weights & Measures

**CERTIFICATE OF WEIGHT**

Contracting Capabilities for Organic Incineration Technologies



**OIT, Inc.** N<sup>o</sup> 3793  
P.O. Box 55878  
North Pole, Alaska 99705  
(907) 488-4899 Fax: (907) 488-4823

Shipper \_\_\_\_\_ Contract 010-047  
Carrier AIT Commodity Cont Soil  
W/B No. \_\_\_\_\_ Truck No. T-78  
Origin FTWW Destination OIT  
Driver ON  OFF  SP317

2:16P 10-12-10	2:16P 10-12-10
000 ID	000 ID
6035 CN	6035 CN
84120 LB	84120 LB
12:21P 10-12-10	12:21P 10-12-10
000 ID	000 ID
6036 CN	6036 CN
41680 LB	41680 LB

21.22

Driver's Signature: *Scott M. Conell*

Public Scale Certified and Inspected by Alaska Department of Commerce, Division of Weights & Measures



P.O. Box 55878  
 North Pole, AK 99705  
 (907) 488-4899 • FAX (907) 488-4823

## CERTIFICATION OF THERMAL TREATMENT

The undersigned hereby certifies that the below described material has been thermally treated and remediated to less than 50 PPM AK101, and 100 PPM AK102, 2000 PPM AK103, and 0.02 PPM Benzene in accordance with Alaska Department of Environmental Conservation Level A Clean-up Standards and under our ADEC Air Quality Permit No. AQ0325TVP01.

<b>Client:</b>	<b>Project:</b>
Jacobs Engineering 4300 B Street, Suite 600 Anchorage, Alaska 99503	Thermal remediation, post testing and return to Ft. Wainwright 68.3 tons of POL contaminated soil from Taku Garden on FT. Wainwright Alaska. Delivery Order No. 05-F50701-D-010-0046

The test results demonstrating successful remediation are attached and described as follows:

Stake	Lab Reference	Contract	AK101	AK102	AK103	Benzene
4	1106007-001	10-047JE	ND	3.98	ND	ND

Testing Lab: Test America, 2000 W International Airport Road, Ste. A-10, Anchorage, AK 99502-1119

The undersigned further certifies that they are familiar with the information contained in this document and to the best of their knowledge and belief the information is true, complete and accurate.

Signature:

Mark W. Sanford, President

Date



Alaska Analytical Laboratory  
1956 Richardson Highway  
North Pole, Alaska 99705  
TEL: (907) 488-1271 FAX: (907) 488-  
Website: [www.alaska-analytical.com](http://www.alaska-analytical.com)

June 21, 2011

Mark Sanford  
OIT, Inc.  
P.O. Box 55878  
North Pole, Alaska 99705  
TEL: (907) 488-4899  
FAX:

RE: Jacobs Engineering 10-047JE

Order No.: 1106007

Dear Mark Sanford:

Alaska Analytical Laboratory received 1 sample(s) on 6/14/2011 for the analyses presented in the following report.

There were no problems with the analytical events associated with this report unless noted in the Case Narrative. Analytical results designated with a "J" qualifier are estimated and represent a detection above the Method Detection Limit (MDL) and less than the Reporting Limit (PQL). These analytes are not reviewed nor narrated as to whether they are laboratory artifacts.

Quality control data is within laboratory defined or method specified acceptance limits except if noted.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

A handwritten signature in black ink that reads 'Kelley Lovejoy'.

Kelley Lovejoy  
Chief Chemist  
1956 Richardson Highway  
North Pole, Alaska 99705



Alaska Analytical Laboratory  
1956 Richardson Highway  
North Pole, Alaska 99705  
TEL: (907) 488-1271 FAX: (907) 488-  
Website: [www.alaska-analytical.com](http://www.alaska-analytical.com)

## Case Narrative

WO#: 1106007

Date: 6/21/2011

---

**CLIENT:** OIT, Inc.  
**Project:** Jacobs Engineering 10-047JE

This report in its entirety consists of the documents listed below. All documents contain the Alaska Analytical Laboratory Work Order Number assigned to this report.

1. Paginated Report including: Case Narrative, Analytical Results and Applicable Quality Control Summary Reports.
2. A Cover Letter that immediately precedes the Paginated Report.
3. Paginated copies of the Chain of Custody Documents supplied with this sample set.

Concentrations reported with a J flag in the Qual field are values below the reporting limit (RL) but greater than the established method detection limit (MDL). There is greater uncertainty associated with these results and data should be considered as estimated.

Concentrations reported with an E flag in the Qual field are values that exceed the upper quantification range. There is greater uncertainty associated with these results and data should be considered as estimated.

Any comments or problems with the analytical events associated with this report are noted below.



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 North Pole, Alaska 99705  
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 Website: [www.alaska-analytical.com](http://www.alaska-analytical.com)

# Analytical Report

(consolidated)

WO#: 1106007

Date Reported: 6/21/2011

CLIENT: OIT, Inc.

Collection Date: 6/14/2011 2:49:00 PM

Project: Jacobs Engineering 10-047JE

Lab ID: 1106007-001

Matrix: SOIL

Client Sample ID Stake 4 10-047JE

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>				<b>AK102</b>	<b>SW3545</b>	Analyst: KL
Diesel Range Organics C10-C25	3.98	10.5	J	mg/Kg-dry	1	6/17/2011 1:09:50 PM
Residual Range Organics C25-C36	ND	52.3		mg/Kg-dry	1	6/17/2011 1:09:50 PM
Surr: Octacosane	93.2	50-150		%REC	1	6/17/2011 1:09:50 PM
Surr: o-Terphenyl	87.8	50-150		%REC	1	6/17/2011 1:09:50 PM
<b>PERCENT MOISTURE</b>				<b>D2216</b>		Analyst: KL
Percent Moisture	5.42	1.00		wt%	1	6/15/2011 2:13:53 PM
<b>GASOLINE RANGE ORGANICS</b>				<b>AK101</b>	<b>SW5035</b>	Analyst: KL
Benzene	ND	0.013		mg/Kg-dry	50	6/20/2011 6:04:12 PM
Ethylbenzene	ND	0.032		mg/Kg-dry	50	6/20/2011 6:04:12 PM
Gasoline Range Organics C6-C10	ND	6.34		mg/Kg-dry	50	6/20/2011 6:04:12 PM
m,p-Xylene	ND	0.032		mg/Kg-dry	50	6/20/2011 6:04:12 PM
o-Xylene	ND	0.032		mg/Kg-dry	50	6/20/2011 6:04:12 PM
Toluene	0.030	0.032	J	mg/Kg-dry	50	6/20/2011 6:04:12 PM
Surr: 4-Bromofluorobenzene	111	50-150		%REC	50	6/20/2011 6:04:12 PM
Surr: a,a,a-trifluorotoluene	98.9	50-150		%REC	50	6/20/2011 6:04:12 PM

<b>Qualifiers:</b>	*X	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
	M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit
	PL	Permit Limit	RL	Reporting Detection Limit
	S	Spike Recovery outside accepted recovery limits		



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# QC SUMMARY REPORT

WO#: 1106007

21-Jun-11

Client: OIT, Inc.

Project: Jacobs Engineering 10-047IF

TestCode: AK101S

Sample ID: LCS-162	SampType: LCS	TestCode: AK101S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 323						
Client ID: LCSS	Batch ID: 162	TestNo: AK101	SW5035	Analysis Date: 6/20/2011	SeqNo: 3058						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.62	0.020	2.500	0	105	60	120				
Ethylbenzene	2.38	0.050	2.500	0	95.3	60	120				
Gasoline Range Organics C6-C10	120	10.0	125.0	0	96.2	60	120				
m,p-Xylene	4.82	0.050	5.000	0	96.3	60	120				
o-Xylene	2.42	0.050	2.500	0	96.8	60	120				
Toluene	2.50	0.050	2.500	0	100	60	120				
Surr: 4-Bromofluorobenzene	2.52		2.500		101	60	120				
Surr: a,a,a-trifluorotoluene	2.48		2.500		99.4	60	120				

Sample ID: LCSD-162	SampType: LCSD	TestCode: AK101S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 323						
Client ID: LCSS02	Batch ID: 162	TestNo: AK101	SW5035	Analysis Date: 6/20/2011	SeqNo: 3059						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	2.46	0.020	2.500	0	98.4	60	120	2.616	6.17	20	
Ethylbenzene	2.28	0.050	2.500	0	91.0	60	120	2.384	4.66	20	
Gasoline Range Organics C6-C10	121	10.0	125.0	0	96.6	60	120	120.2	0.447	20	
m,p-Xylene	4.60	0.050	5.000	0	92.0	60	120	4.815	4.60	20	
o-Xylene	2.32	0.050	2.500	0	92.6	60	120	2.420	4.41	20	
Toluene	2.41	0.050	2.500	0	96.5	60	120	2.502	3.66	20	
Surr: 4-Bromofluorobenzene	2.35		2.500		93.8	60	120		0	0	
Surr: a,a,a-trifluorotoluene	2.31		2.500		92.2	60	120		0	0	

**Qualifiers:**

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceeds
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit	P	Second column confirmation exceeds
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 1106007

21-Jun-11

Client: OIT, Inc.

Project: Jacobs Engineering 10-047IF

TestCode: AK101S

Sample ID: MB-162	SampType: MBLK	TestCode: AK101S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 323						
Client ID: PBS	Batch ID: 162	TestNo: AK101	SW5035	Analysis Date: 6/20/2011	SeqNo: 3060						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.020									
Ethylbenzene	ND	0.050									
Gasoline Range Organics C6-C10	ND	10.0									
m,p-Xylene	0.046	0.050									J
o-Xylene	ND	0.050									
Toluene	0.047	0.050									J
Surr: 4-Bromofluorobenzene	3.36		3.000		112	60	120				
Surr: a,a,a-trifluorotoluene	2.88		3.000		95.8	60	120				

**Qualifiers:**

*X	Value exceeds Maximum Contaminant Level	E	Value above quantitation range	H	Holding times for preparation or analysis exceed
M	Manual Integration used to determine area response	ND	Not Detected at the Method Detection Limit	P	Second column confirmation exceeds
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits



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# QC SUMMARY REPORT

WO#: 1106007

21-Jun-11

Client: OIT, Inc.

Project: Jacobs Engineering 10-0471F

TestCode: AK102S

Sample ID: LCS-161	SampType: LCS	TestCode: AK102S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 321						
Client ID: LCSS	Batch ID: 161	TestNo: AK102	SW3545	Analysis Date: 6/17/2011	SeqNo: 3049						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	99.8	10.0	100.0	0	99.8	75	125				
Residual Range Organics C25-C36	108	50.0	100.0	0	108	60	120				
Surr: Octacosane	1.99		2.000		99.6	60	120				
Surr: o-Terphenyl	2.06		2.000		103	60	120				

Sample ID: LCSD-161	SampType: LCSD	TestCode: AK102S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 321						
Client ID: LCSS02	Batch ID: 161	TestNo: AK102	SW3545	Analysis Date: 6/17/2011	SeqNo: 3050						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	98.3	10.0	100.0	0	98.3	75	125	99.78	1.46	20	
Residual Range Organics C25-C36	112	50.0	100.0	0	112	60	120	107.9	3.63	20	
Surr: Octacosane	2.07		2.000		104	60	120		0	0	
Surr: o-Terphenyl	2.07		2.000		104	60	120		0	0	

Sample ID: MB-161	SampType: MBLK	TestCode: AK102S	Units: mg/Kg	Prep Date: 6/15/2011	RunNo: 321						
Client ID: PBS	Batch ID: 161	TestNo: AK102	SW3545	Analysis Date: 6/16/2011	SeqNo: 3051						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics C10-C25	ND	10.0									
Residual Range Organics C25-C36	ND	50.0									
Surr: Octacosane	2.17		2.000		108	60	120				
Surr: o-Terphenyl	2.03		2.000		102	60	120				

<b>Qualifiers:</b>	*X Value exceeds Maximum Contaminant Level	E Value above quantitation range	H Holding times for preparation or analysis exceeds
	M Manual Integration used to determine area response	ND Not Detected at the Method Detection Limit	P Second column confirmation exceeds
	R RPD outside accepted recovery limits	RL Reporting Detection Limit	S Spike Recovery outside accepted recovery limits



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 Website: [www.alaska-analytical.com](http://www.alaska-analytical.com)

# Sample Receipt Checklist

Client Name: OIT01

Date and Time Received: 6/14/2011 5:12:21 PM

Work Order Number 1106007

RcptNo: 1

Received by: Kelley Lovejoy

Completed by:

*Kelley Lovejoy*

Reviewed by:

*Kelley Lovejoy*

Completed Date:

6/15/2011 9:53:07 AM

Reviewed Date:

6/15/2011 9:54:23 AM

Carrier name: Client

- Chain of custody present? Yes  No
- Chain of custody signed when relinquished and received? Yes  No
- Chain of custody agrees with sample labels? Yes  No  Not Present
- Are matrices correctly identified on Chain of custody? Yes  No
- Is it clear what analyses were requested? Yes  No
- Custody seals intact on sample bottles? Yes  No  Not Present
- Samples in proper container/bottle? Yes  No
- Were correct preservatives used and noted? Yes  No
- Sample containers intact? Yes  No
- Sufficient sample volume for indicated test? Yes  No
- Were container labels complete (ID, Pres, Date)? Yes  No
- All samples received within holding time? Yes  No
- Was an attempt made to cool the samples? Yes  No
- All samples received at a temp. of > 0° C to 6.0° C? Yes  No
- Response when temperature is outside of range:
- Preservative added to bottles:
- Sample Temp. taken and recorded upon receipt? Yes  No  5.9 To 5.9°
- Water - Were bubbles absent in VOC vials? Yes  No  No Vials
- Water - Was there Chlorine Present? Yes  No  NA
- Water - pH acceptable upon receipt? Yes  No  No Water
- Are Samples considered acceptable? Yes  No
- Custody Seals present? Yes  No
- Traffic Report or Packing Lists present? Yes  No
- Airbill or Sticker? Air Bill  Sticker  Not Present
- Airbill No:
- Sample Tags Present? Yes  No
- Sample Tags Listed on COC? Yes  No
- Tag Numbers:
- Sample Condition? Intact  Broken  Leaking

Case Number:

SDG:

SAS:

Adjusted? \_\_\_\_\_ Checked by \_\_\_\_\_

Any No and/or NA (not applicable) response must be detailed in the comments section below.





**OIT, Inc.**  
**AIT, OIT Properties & NPGP**  
**P.O. Box 55878**  
**North Pole, AK 99705**  
**Phone: (907) 488-4899**  
**Fax: (907) 488-4823**



# Invoice

Date	Invoice #
10/12/2010	09-3005

## Bill To

Jacobs Engineering  
 4300 B Street, Suite 600  
 Anchorage, Alaska 99503

		Project	Contractor #	
		Taku Gardens	10-047JE	
Item	Quantity	Description	Rate	Amount
Loose Soil	68.3	Store, thermally treat and post-testing of petroleum contaminated soil from Taku Gardens FT. Wainwright Alaska. Delivery Order No. 05-F50701-D-010-0046	135.37	9,245.77
Tons	68.3	AIT Charge by the ton for the material to be transported from FT. Wainwright to OIT.	10.12	691.20
Tons	68.3	AIT Charge by the ton to return material after remediation to FT. Wainwright landfill.	10.12	691.20
<b>Total</b>				\$10,628.17

**ATTACHMENT 4**  
**Field Logbook**

Taku

Manholes



*"Rite in the Rain"*®

ALL-WEATHER

**FIELD**

No. 353N

7/16/10 -

AKERS-UR-Ø5F5Ø7-HØ4-0022



0840: Manhole # 11230

PID = 0.1 ppm

4 gas meter

CO - 0

LEL - 0

H<sub>2</sub>S - 0

O<sub>2</sub> - 20.9

Initial  
test

7/10/10  
No evidence  
of  
visible staining  
or  
odor

1030: After sucking out sediment with  
vactor jet-roder for 20 min.

re-test Manhole 10868

PID = 0.1 ppm

4 gas CO - 0

LEL - 0

H<sub>2</sub>S - 0

O<sub>2</sub> = 20.9

1640: re-test manhole 11230

PID = 0.1 ppm

CO - 0

LEL - 0

H<sub>2</sub>S - 0

O<sub>2</sub> - 21.2

7/14/10  
1650: Chemtrak finished sediment  
removal at Manhole # 10868

re-test  
re-test gas  
PID = 0.1 ppm

4 gas CO - 0

LEL - 0

H<sub>2</sub>S - 0

O<sub>2</sub> - 21.3

1700: Chemtrak finished sediment  
removal at #10867 manhole

re-test  
re-test  
PID = 0.0 ppm

4 gas CO - 0

LEL - 0

H<sub>2</sub>S - 0

O<sub>2</sub> - 21.2

1800: Chemtrak finished sediment  
removal at # 11230 manhole

re-test  
re-test  
PID = 0.0 ppm

4 gas CO = 0

LEL = 0

H<sub>2</sub>O - 0

O<sub>2</sub> = 20.9

0700 tailgate

7/19/10

0745 calibrate 4-gas meter  
& PID

0810 Manhole # 11225

PID = 0.0 ppm

4 gas meter

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 20.9

no visible signs of staining  
no odor

0817 Manhole # 11173

PID = 0.0 ppm

4 gas meter

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 20.9

no staining, no odor

0823 Manhole # 11228

PID = 0.0 ppm

4-gas meter

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 20.9

no stains, no odor

1702 Manhole # 11229

PID = 0.0 ppm

4-gas meter

CO = 0

LEL = 0

H<sub>2</sub>O = 0

O<sub>2</sub> = 20.2

post  
test

1706 Manhole # 11228

PID = 0.0

4-gas meter

CO = 0

LEL = 0

H<sub>2</sub>O = 0

O<sub>2</sub> = 20.2

post  
test

7/19/10

1709 Manhole #11225

PID = 0.0 ppm

4-gas meter

post  
test

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 20.2

1714 Manhole #11173

PID = 0.0 ppm

4 gas meter

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 20.9

0700 CALIBRATE PID  $\frac{1}{2}$   
4-GAS 0730 INITIAL TESTS

11175	PID	0.0 ppm	0.0	1645
	CO	0	0	
	LEL	0	0	
	H <sub>2</sub> S	0	6	
	O <sub>2</sub>	20.9	21.1	

11174	PID	0.0	0.0	1644
	CO	0	0	
	LEL	0	0	
	H <sub>2</sub> S	0	0	
	O <sub>2</sub>	20.9	20.9	

11162	PID	0.0	0.0	1643
	CO	0	0	
	LEL	0	0	
	H <sub>2</sub> S	0	0	
	O <sub>2</sub>	20.3	20.9	

11161	PID	0.0	0.0	1643
	CO	0	0	
	LEL	0	0	
	H <sub>2</sub> S	0	0	
	O <sub>2</sub>	20.3	20.9	

NO # W OF 1161 1642 POST-TEST

PID 0.0 0.0

CO 0 0

LEL 0 0

H<sub>2</sub>S 0 0

O<sub>2</sub> 20.3 20.9

11102 1640 PRE-TEST 7/21 POST 1715

PID 0.0 0.0

CO 0 0

LEL 0 0

H<sub>2</sub>S 0 0

O<sub>2</sub> 20.1 20.9

POST 1710

7/21<sup>PM</sup>

11111 PID 0 0.0

CO 0 0

LEL 0 0

H<sub>2</sub>S 0 0

O<sub>2</sub> 20.9 20.9 1712

11112 PID 0 0.0

CO 0 0

LEL 0 0

H<sub>2</sub>S 0 0

O<sub>2</sub> 19.7 20.9

11118 PID 0

CO 0

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 19.6

11119 PID 0

CO 0

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 20.6

1710 JY DISCUSSES POST TEST  
APPROACH WITH BILLY. CHERNICK  
TO PUT UPS BACK OVER

MANHOLES AFTER DISTURBANCE  
FOR BETTER REPRESENTATION  
OF CONDITIONS. READINGS  
WILL BE COLLECTED BY FEEDING  
THE TUBE THROUGH THE HOLE

7/22

~~1118~~ - 700 bump tested 4-gas  
& PID

- Screening taken through top  
of manhole to get a more accurate  
reading prior to opening.

11119 CO - 0  
LEL - 0  
H<sub>2</sub>S - 0  
O<sub>2</sub> - 18.4  
PID - 0.1

11134 - CO - 0  
LEL - 0  
H<sub>2</sub>S - 0  
O<sub>2</sub> - 14.3  
PID - 0.5

11118 CO - 0  
LEL - 0  
H<sub>2</sub>S - 0  
O<sub>2</sub> - 17.2  
PIP - 0.2

11185 - CO - 0  
 LEL - 0  
 H<sub>2</sub>S - 0  
 O<sub>2</sub> - 18.1  
 PID - 0.3

10749 - CO - 0  
 LEL - 0  
 H<sub>2</sub>S - 0  
 O<sub>2</sub> - 16.6  
 PID - 0.2

10750 CO - 0  
 LEL - 0  
 H<sub>2</sub>S - 0  
 O<sub>2</sub> - 17.1  
 PID - 0.2

1350 Manhole # 10706  
 PID = 0.3 ppm  
 CO = 0  
 LEL = 0  
 H<sub>2</sub>S = 0  
 O<sub>2</sub> = 20.9

1355 Manhole # 10707  
 PID = 0.6 ppm  
 CO = 0  
 LEL = 0  
 H<sub>2</sub>S = 0  
 O<sub>2</sub> = 19.2

1401 Manhole # 10705  
 PID = 0.3 ppm  
 CO = 0  
 LEL = 0  
 H<sub>2</sub>S = 0  
 O<sub>2</sub> = 20.4

these three sets of readings were  
 taken w/ manhole covers on

7/22/10

1757 Manhole # 11118

PID = 0.1 PPM

4-gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.2

1758 - Manhole # 11119

PID = 0.1 PPM

4-gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.0

1801 Manhole # 11134

PID = 0.6 PPM

4-gas

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 17.7

These three taken w/ MH lids ON

1802 Manhole # 11135

PID = 0.1 PPM

4 gas Meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.3

1807 Manhole # 10749

PID = 0.4 PPM

4-gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 18.5

1809 Manhole # 10750

PID = 0.3 PPM

4 gas meter

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.1

These three taken w/ MH lid ON

16 7/22/10

1811 - Manhole # 10707

PID = 0.1 PPM

4 gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 20.4

1813 - Manhole # 10706

PID = 0.2 PPM

4-gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 20.9

1815 Manhole # 10705

PID = 0.3 PPM

4 gas meter

POST CO 0

TEST LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 20.9

These three taken w/ MH lids on

7/26/10

17

0700 Tailgate taken w/ lid ON  
AC & PB

0815 Calibrated 4-gas meter  
& PID - all good

Manhole # 10708

PID = 0.0 PPM 830 AM

CO = 1

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 18.4

PRE TEST

Manhole # 10718

PID = 0.0 PPM

CO = 1

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 16.8

834 AM

PRE TEST

Manhole # 10719

PID = 0.1 PPM

CO = 0

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 16.6

Lost hose down man

839 AM

PRE TEST

Manhole # 10769 845 AM

PID = 0.0 PPM

CO = 1

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 18.7

PRE TEST

Manhole # 10802 848 AM

PID = 0.0 PPM

CO = 1

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 17.4

PRE TEST

Manhole # 10801 850 AM

PID = 0.0 PPM

CO = 1

LEL = 0

H<sub>2</sub>S = 0

O<sub>2</sub> = 18.5

PRE TEST

all taken w/ lid on

0853 Manhole # 10805

PID = 0.0 PPM

PRE 4-gas meter

TEST CO 1

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 19.4

0855 Manhole # 10804

PID = 0.0 PPM

4-gas meter

PRE CO 3

TEST LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 15.6

0900 Manhole # 10798

PID = 0.0 PPM

CO 3

LEL 0

H<sub>2</sub>S 0

all taken w/ lid on

O<sub>2</sub> 17.0

1733 POST TEST

10708

PID 0.5 ppm

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.5

10718

PID 0.3

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.5

10719

PID 0.6

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.4

10709

PID 0.4

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.6

10805

PID 0.3

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

10802

PID 0.3

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

10804

PID 0.3

CO 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.5

7/27 Pre tests Done w/ lid on  
10805

PID 0.0 PPM

CO 1

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 19.6

(NA)  
POST-TEST

10804

PID 0.0 PPM

CO 2

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 19.4

PRE TEST

10798

PID PPM

CO 2

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 19.8

PRE TEST

7/28/10  
0800

10804

PID 0.0 PPM

CO 3

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 15.5

0802

10798

PID 0.0 PPM

CO 2

LEL 0

H<sub>2</sub>S 0

O<sub>2</sub> 17.9

All Measurements taken w/ lid on

8/10/10 P45  
1110Z Pre-Test

CO 0  
LEL 0 Jacobs = MD & AC (2)  
H<sub>2</sub>S 0 PMI - Robi & Byron & Gene  
O<sub>2</sub> 20.9  
PID = 0.1 PPM

1111 Pre-Test

CO 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.0 PPM

1112 PRE-TEST

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.0 PPM

All w/ Lids off

8/10/10  
1104-

1118 Pre-Test

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.1 PPM

1119

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.1 PPM

11134

CO 0.1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.1 PPM

All w/ Lids off

8/10/10  
1116

11135

PRE

CO 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9

PID = 0.1 PPM

10749

PRE

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9PID = ~~0.3 PPM~~ 0.5 PPM

10750

PRE

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9

PID = 0.4 PPM

All w/ Lids off

8/10/10  
1137

10707

PRE

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9

PID = 0.2 PPM

10708

PRE

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9

PID = 0.3 PPM

10706

PRE

CO 0  
LEL 0  
O<sub>2</sub> 20.9

PID

H<sub>2</sub>S 0

10705

PRE

CO 0  
LEL 0H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID = 0.1 PPM

All w/ LIDS off

8/11/10

Lids off ~~PRE~~

# 8:21 am PRE  
 11102  
 CO 1  
 LEL 0  
 HS 0  
 O<sub>2</sub> 20.9  
 PID = 0.7 ppm

# 8:28 am  
 11,111 PRE

CO 0  
 LEL 0  
 HS 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

8:31

# 11,112 PRE

CO 0  
 LEL 0  
 HS 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

8/11/10

Lids off ~~PRE~~

8:37 am PRE  
 # 11,118

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

8:41 am

# 11,119 PRE

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.0 ppm

8:45 am

# 11,134 PRE

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

8/11/10

Lids off

8:57am

#11135 PRE

CO 3

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.0

9:01am

#10749 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.3 ppm

9:05am

#10750 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.2 ppm

8/11/10

Lids off

9:10am

#10709 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.4 ppm

9:14am

#10706 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.5 ppm

9:18

#10705 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.1

8/11/10

Lids off

9:22am

#10708 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.4 ppm

9:44am

#10718 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.2 ppm

9:46am

#10719 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.1 ppm

8/11/10

Lids off

9:51am

#10709 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.2 ppm

9:59am

#10802 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.3 ppm

10:02am

#10801 PRE

CO 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.1 ppm

8/11/10

Lids off

10:07am  
 #10868 PRE  
 CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

10:09am  
 #10867 PRE (lid on)  
 CO 1  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 19.8  
 PID 0.1 ppm

10:15am  
 #11230 PRE  
 CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

8/11/10

10:18am  
 #11229 PRE (lid on)  
 CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 19.9  
 PID 0.3 ppm

10:21am  
 #11228 PRE (lid off)  
 CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.7  
 PID 0.2 ppm

10:26am  
 #11225 PRE (lid on)  
 CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

8/11/10

10:30 am  
# 11173 PRE (Lid on)

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.5  
PID 0.3 ppm

10:34 am  
# 11174 PRE (Lid on)

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.9  
PID 0.3 ppm

10:37 am  
# 11175 PRE (Lid on)

CO 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.1 Low  
PID 0.2 ppm

8/11/10

10:41 am  
# 11162 PRE (Lid on)

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.5  
PID 0.1 ppm

10:43 am  
# 11161 PRE (Lid on)

CO 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.1  
PID 0.2 ppm

10:46 am  
# NO# PRE (Lid on) N.E. of Mechanical Bldg.

CO 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.0  
PID 0.2 ppm

3/11/10

10:52 am

#10798 PRE (LID OFF)

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

10:56 am

#10805 PRE (Lid off)

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

11:00 am

#10804 PRE (Lid off)

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.0 ppm

3/12/10

8:58 am

#11102 PRE (Lid off)

CO 1  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 1.2 ppm

9:04 am

#11111 PRE (Lid off)

CO 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.4 ppm

9:07 am

#11112 PRE (Lid off)

CO 1  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

8/12/10

9:11 am

# 11,118 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

9:14 am

# 11,119 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

9:17 am

# 11,134 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

8/12/10

9:20 am

# 11,135 PRE (Lid off)

Co 1  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.5 ppm

9:25 am

# 10,750 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

9:28 am

# 10,749 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm

8/12/10

9:33 am

#10707 PRE (Lid off)

Co 1

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.2 ppm

9:37 am

#10706 PRE (Lid ~~off~~<sup>on</sup>)/cracked open

Co 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.4 ppm

9:39 am

#10705 PRE (Lid ~~off~~<sup>on</sup>)/cracked open

Co 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.3 ppm

8/12/10

9:44 am

#10708 PRE (Lid off)

Co 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 20.9

PID 0.3 ppm

9:47 am

#10719 PRE (Lid on) cracked open

Co 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.9

PID 0.2 ppm

9:50 am

#10718 PRE (Lid on)

Co 0

LEL 0

H<sub>2</sub>S 0O<sub>2</sub> 19.8

PID 0.3 ppm

8/12/10

9:56 am

#10769 PRE (Lid on) cracked open

Co 1  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

10:03

#10798 PRE (Lid on)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.2  
 PID 0.3 ppm

10:23 am

#10802 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.5 ppm

8/12/10

10:26 am

#10801 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.3  
 PID 0.3 ppm

10:31 am

#10804 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm

10:36 am

#10805 PRE (Lid off)

Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

8/12/10

10:42 am  
 #10868 PRE (Lid off)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.4 ppm

10:46 am  
 #10867 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 19.9  
 PID ~~0.4~~ 0.3 ppm

10:51 am  
 #11229 PRE (Lid off)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.3  
 PID 0.5 ppm

8/12/10

10:59 am  
 #11230 PRE (Lid off)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm

11:03 am  
 #11228 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.3  
 PID 0.3 ppm

11:06 am  
 #11225 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID ~~0.3~~ 0.4 ppm

8/12/10

11:10 am  
 # 11173 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.7  
 PID 0.3ppm

11:13 am  
 # 11174 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.4ppm

11:17 am  
 # 11175 (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 19.9  
 PID 0.3ppm

8/12/10

11:20 am  
 # 11162 PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3ppm

11:23 am (Lid on)  
 # 11161  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.7  
 PID 0.2ppm

11:28 am  
 # 11160 # N.E. of Mechanical Bldg. PRE (Lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.1  
 PID 0.3ppm

8/13/10

4 GAS & PID Cal Gas checked out  
A.O.K. @ 8:20 am

8:32 am  
#11102 PRE (Lid on)

Co 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.0  
PID 0.3 ppm

15:43

POST

0  
0  
0  
20.3  
0.3 ppm

8:38 am  
#11,111 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.2  
PID 0.2 ppm

15:41

POST

0  
0  
0  
20.0  
0.3 ppm

8:40 am  
#11,112 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID 0.3 ppm

15:38

POST

0  
0  
0  
20.9  
0.3 ppm

8/13/10

8:45 am  
#11,118 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID 0.2 ppm

15:32

POST

0  
0  
0  
20.9  
0.3 ppm

8:49 am  
#11,119 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID 0.2 ppm

15:30

POST

0  
0  
0  
20.9  
0.3 ppm

8:53 am  
#11134 PRE (Lid on)

Co 1  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.2 (low)  
PID 0.3 ppm

15:26

POST

0  
0  
0  
19.3 (low)  
0.4 ppm

8/13/10

15:23

8:57 am	
#11135 PRE (Lid on)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.1	20.0
PID 0.3ppm	0.3ppm

8:59 am	15:20
#10749 PRE (Lid off)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.2ppm	0.3ppm

9:02	15:18
#10750 PRE (Lid off)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.3ppm	0.4ppm

8/13/10

9:06 am	15:15
#10707 PRE (Lid off)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.3ppm	0.4ppm

9:09 am	15:09
#10706 PRE (Lid on/cracked)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.2ppm	0.3ppm

9:11 am	15:12
#10705 PRE (Lid on/cracked)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.3ppm	0.3ppm

8/13/10

9:16 am  
 #10708 PRE (Lid off) 15:07 POST  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm 0.2 ppm

9:25 am  
 #10719 PRE (Lid on)/cracked POST 15:03  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.1  
 PID 0.2 ppm 0.2 ppm

9:28 am  
 #10718 PRE (Lid on) 15:01 POST  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.1 ppm 0.2 ppm

8/13/10

9:36 am  
 #10769 PRE (Lid off) 14:55 POST  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm 0.3 ppm

9:41  
 #10802 PRE (Lid off) 14:46 POST  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.2 ppm 0.1 ppm

9:44 am  
 #10801 PRE (Lid off) 14:44 POST  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.9  
 PID 0.3 ppm 0.1 ppm

8/13/10

9:49 am	14:43
#10805 PRE (lid on/cracked)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.2 ppm	0.3 ppm

9:51 am	14:42
#10804 PRE (lid on/cracked)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.2 ppm	0.3 ppm

9:56 am	14:40
#10798 PRE (lid on/cracked)	Post
Co 0	1
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	20.9
PID 0.1 ppm	0.4 ppm

8/13/10

10:01 am	
#10868 PRE (lid on/cracked)	
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.9	
PID <del>0.2</del> 0.1 ppm	

10:06 am	
#10867 PRE (lid on)	
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 19.9	
PID 0.5 ppm	

10:10 am	
#11229 PRE (lid on/cracked)	
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.5	
PID 0.3 ppm	

8/13/10

10:12 am  
#11230 PRE (lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID 0.1 ppm

10:15 am  
#11228 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.9  
PID 0.3 ppm

10:18 am  
#11225 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 20.9  
PID 0.2 ppm

8/13/10

10:22 am  
#11173 PRE (lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.9  
PID 0.2 ppm

10:25 am  
#11174 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.1  
PID 0.1 ppm

10:28 am  
#11175 PRE (Lid on)

Co 0  
LEL 0  
H<sub>2</sub>S 0  
O<sub>2</sub> 19.7  
PID 0.2 ppm

8/13/10

10:32 am  
 #11162 PRO (lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.5  
 PID 0.3 ppm

10:36 am  
 #11161 PRO (lid on)  
 Co 0  
 LEL 0  
 H<sub>2</sub>S 0  
 O<sub>2</sub> 20.1  
 PID 0.3 ppm

10:40 am	15:46
# No # N.E. of Mechanical Bldg (lid on)	POST
Co 0	0
LEL 0	0
H <sub>2</sub> S 0	0
O <sub>2</sub> 20.8	20.9
PID 0.2 ppm	0.2 ppm



"Rite in the Rain"®

ALL-WEATHER  
ENVIRONMENTAL

No. 550F

Taku

2010

AKERS-WR-~~05F520~~-H04-0018  
05F507

3-30-10 - 12/6/10



Location TAKU SP

Date 8/10/10

Project / Client

cloudy, Occast, Inters Rain

60°F - calm

0700 - tailgate  
~~0745 - B~~0745 - Bump test PID - 98.9 PPM  
AC & MD

0803 - collect sample (low point)

IOFWA-TAKU-SO-WO1

Depth = 0 to 4" (between liners)

2 - 8 oz AK102/103, SVOC, Fgn, reactivity, PCB/RORA, PEST

1 - 4 oz herbicides

1 - 4 oz Septa/MeOH AK 101, 8260

0815 - collect sample

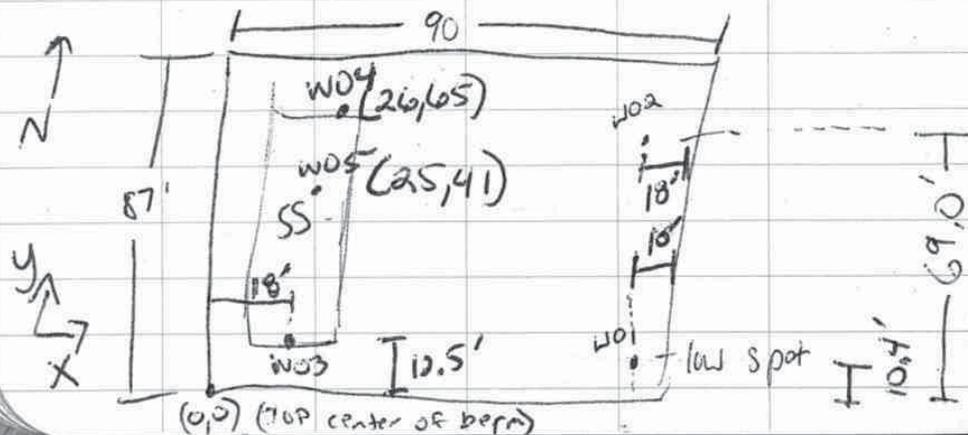
(Bldg 22 - PCB)  
~~Bldg 15 - solvent soils~~

IOFWA-Taku-SO-WO2

depth - 0-6" (between liners)

2 - 8oz, 1 4oz, 1 4oz septa/MeOH

2 - 8oz, 1 4oz (MS/MSD)



Location TAKU SP

Date 8/10/10

Project / Client

0834 collect sample (Between = lead spot)  
BLDG-15 - Solvent soils

IOFWA-TAKU-SO-WO3

Depth = 0 to 6" (between liners)

2 - 8 oz AK102/103, SVOC, Fgn, reactivity, PCB, RORA, PEST

1 - 4oz herbicides

1 - 4oz Septa/MeOH AK 101/8260

0840 - Coordinate w/ CT to get  
liners moved to continue  
Sampling

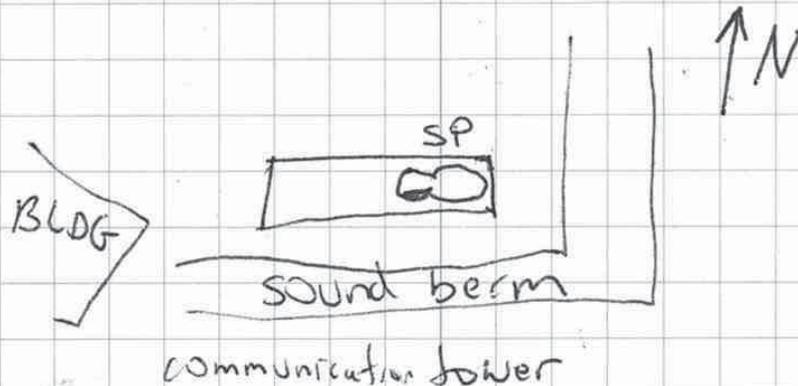
Rain, 60°F, slick tarps

0930 - some water has to be pumped

0945 - move to MH SP - 4 to 5 cy

- collect 5 FS

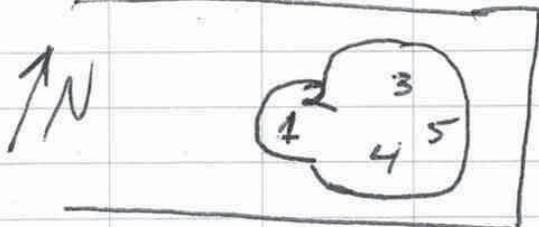
- will collect 1 Waste Sample



Location TAKUSP Date 8/10/10

Project / Client \_\_\_\_\_

(used header for headspace)



FS #	PID (PPM)
1	1.0
2	0.5
3	0.9
4	1.0
5	0.8

1010 - collect sample (FS #4)

10FWA-TAKU-SO-W06

2 - 8 oz AK102/103, SVOC, Ign, Res, PCB, PCRA, Pest

2 - 4 oz Herb/explosives

1 - 4 oz Septa/MeOH AK101, 8260

Depth = 12-18"

~~lunch & MH SP sample collection~~

1445 - return to TAKU SP

1501 - collect sample (Bldg 40-Pol)

10FWA-taku-SO-W04

Depth - 0 to 6"

2 - 8 oz AK102/103, SVOC, Ign, Res, PCB, PCRA, Pest

1 - 4 oz herbicides

1 - 4 oz septa/MeOH AK101, 8260

Location TAK SP / DERA Date 8/10/10

Project / Client \_\_\_\_\_

~~1500 move to TAKU STOCKpile~~

1523 - collect sample (DDT sacks)

10FWA-TAKU-SO-W05

2 - 8 oz AK102/103, SVOC, Ign, Res, PCB, PCRA, Pest

2 - 4 oz herbicide

1 - 4 oz septa/MeOH AK101, 8260

Depth = 0 to 6"

1645 - collect sample

DERA BLDG (09SGDSBI-9) Down

10FWA-TAKU-SO-W01

2 - 1L amber (HCl) AK102/103

5 - 40ml VOA<sup>(HCl)</sup> AK101, SW 82601 - 500ml Poly HNO<sub>3</sub> SW 6020, 7471

4 - 1L amber UNP 8270C, 8081A, 8082, 8151A

**ATTACHMENT 5**  
**Responses to Comments**

**REVIEW  
COMMENTS**

**PROJECT: 2010 FCS FIELD ACTIVITIES  
REPORT**

**LOCATION: FORT WAINWRIGHT**

U.S. ARMY CORPS OF ENGINEERS		DATE: 2/29/12 REVIEWER: Deb Caillouet PHONE:	ACTION TAKEN ON COMMENT BY: JACOBS ENGINEERING GROUP INC.		
Item No.	Drawing Sheet No., Spec. Para.	COMMENTS	REVIEW CONFERENCE A - comment accepted W - comment withdrawn (if neither, explain)	CONTRACTOR RESPONSE	USAED/ADEC RESPONSE ACCEPTANCE (A-AGREE) (D-DISAGREE)
1.	Page 3	Sampling Results from DERA IDW Characterization. The heading implies the analytical results would be presented in this section. The sample IDs and the analysis is presented but no results. Please include the results	A	Results for the sampling of Buildings 15, 22, and 49 IDW will be included.	
2.	Page 4 Disposal of IDW	There is no documentation in Attachment 2 for the transfer of the 15, 22, and 49 IDW to ECC. Please provide a receipt from ECC or their documentation of the off-site shipment.	A	The sentence in the disposal section relating to the DERA IDW has been revised to read: “Sample results and IDW from Buildings 15, 22, and 49, previously stored in the DERA IDW Storage Facility, were transferred to the Army and disposed of through ECC.” Since the Army coordinated the disposal, Jacobs does not have the disposal receipts.	
3.	DERA IDW	Please identify how the Building 15, 22, and 49 IDW was generated. I can’t find anything in the Drum and Debris Report.	A	Details regarding the IDW stored at the DERA Building will be added to the “Characterization at the DERA IDW Storage Facility” Section and will include the following: <ul style="list-style-type: none"> <li>• Building 15 IDW consisted of containerized hydraulic cylinders, metal debris with oily residue, and a small amount of soil removed during the 2008 investigation effort.</li> <li>• Building 22 IDW consisted of a crushed drum with residual oil and small amount of surrounding soil removed during the 2008 investigation. Jacobs collected one soil sample previously (08FCS BLD 22 OP2).</li> <li>• Building 49 IDW consisted of drums with a small amount of water with fuel sheen removed during the 2009 investigation effort. Jacobs collected one sample previously (09 FCS WW B49 DR01).</li> </ul>	