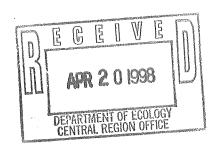
# Kleen Environmental Technologies, Inc.



### Volume 2

### **Environmental Site Restoration**

### Okanogan County

Whiteaker Farm
Tonasket, Washington
Contract No. DACW67-96-M-0893

Kleen Environmental Technologies, Inc. 754 Garfield Street Seattle, WA 98109

October 1997

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# Kleen Environmental Technologies, Inc.

#### 1.0 Introduction

Kleen Environmental Technologies, Inc. (KET) has completed Underground Storage Tank (UST) removal activities, hazardous waste management tasks and debris removal from the Whiteaker Farm located in Tonasket, Washington. Site activities and tasks were conducted in accordance with contract DACW67-96-M-0893. This report will detail activities and information obtained from the effective decommissioning and removal of one (1) 500 gallon and one (1) 300 gallon underground gasoline fuel storage tanks. KET completed additional site tasks including solid waste/debris removal and hazardous waste management and disposal of materials inventoried at the Whiteaker Farm site.

UST removal activities were completed on 1 June 1997 when the UST locations were restored to pre-existing site conditions. Site specific objectives for this project included; 1) Appropriately excavating and removing two underground fuel storage tanks for proper decommissioning and disposal, 2) Evaluating the presence of petroleum hydrocarbons in soils utilizing field observations and confirmational laboratory analysis, 3) Inventory, designation, packaging, transportation and disposal of hazardous wastes, and, 4) Disposal/recycling of large appliances and site debris.

The site specific objectives for this project have been completed. Results of the subsurface investigation indicated no discernible petroleum release (gasoline range hydrocarbons) had occurred at either of the two tank locations at this site. Visual observations indicated the tanks were in satisfactory condition with no evidence of corrosion, breakthrough, or compromised seams. Levels of petroleum hydrocarbons (gasoline range) were non-detectable or present at levels below established limits described in Chapter 173-340, WAC. Regulatory jurisdiction for the UST removal falls under the State of Washington Department of Ecology, Chapter 173. County fire department oversight and permitting was not required at this location.

Concurrent with UST removal activities, KET completed assimilation of large appliances and debris dispersed throughout the specified work site, conducted and completed an inventory of hazardous materials located in specific areas throughout the worksite, and packaged all identified hazardous wastes in accordance with USDOT packaging and transportation guidelines. All containers were labeled in compliance with WAC 173-303 and 40 CFR part 261. Drums of hazardous wastes were staged and secured in the machine shop subsequent to profiling and disposal through a permitted facility.

### 2.0 Scope of Services

#### 2.1 Purpose

The stated purpose of this project was to complete under contract and in accordance with applicable federal, state and local guidelines, the safe decommissioning and removal of two (2) underground storage tanks, the removal of identified appliances and debris, and the categorization and disposal of hazardous materials identified throughout the site. the project consisted of removing the tanks, one previously utilized to fuel a "wind machine" and the other utilized to fuel local agriculture equipment. Additional tasks associated with the tank removal included management of all appurtenances, effective removal of contaminated soil if feasible and subsequent backfilling with "clean" soil. Prior to excavation and removal of the UST's, local underground utilities were

identified and marked. Supply and return lines were identified and ventilation lines marked. Upon excavation and removal of the tanks and completion of confirmational sampling episodes, the site was returned to a safe pre-existing condition. Final compaction was achieved mechanically with a backhoe. No compaction standards were noted for this site.

### 2.2 Scope of Work - UST's

Under contact DACW67-96-M-6893 KET was tasked with excavation and removal of two UST's. On 30 October 1996, KET mobilized equipment and personnel to the Whiteaker Farm site. Prior to mobilization, a permit application was researched through the Tonasket and Okanogan fire districts pertaining to UST removal. UST's at the Whiteaker Farm fall outside of the scope of both agencies tendering the burden of removal to Kleen Environmental Technologies, Inc. Utilities were located and marked to the edge of the property boundary from highway 7, approximately 100 yards to the east of the subject property. As locator services typically mark utilities only to the edge of the property, assumptions had to be made concerning the path of utilities within the boundary of the subject property. Technical specifications identified a probable irrigation line running parallel to the orchard access road and possibly over the UST located adjacent to the machine shop. Functional drawings or as-builts were not available for this project. Overhead power lines were noted in the scope of the site health and safety plan. It was noted these lines were inactive at the time of UST removal activities, Tank locations and excavation limits were reviewed due to the proximity of critical structures adjacent to the tank sites.

Decommissioning activities were scheduled for 30 October 1996. Both tanks were exempted from UST notifications guidelines as they were designated as agriculture and not for commercial motor fuel utilization. The tank located adjacent to the wind machine was identified as a diesel fuel UST in the project technical specifications. Upon review during site briefing activities, it was noted the engine utilized to operate the wind machine was a gasoline engine and the UST at the site was utilized to store gasoline rather than diesel fuel. This UST was filled to capacity with product. KET pumped the product into 55-gallon USDOT approved containers and tendered them to a local farmer for recycling as a motor fuel. This was reviewed and approved by a Corps of Engineer representative on site. The UST located adjacent to the machine shop was a three hundred (300) gallon tank and was free of measurable product at the time of decommissioning.

Excavation and removal activities were completed on 31 October 1996. Fifteen (15) pounds of dry ice was utilized for inerting the 500 gallon tank. Based on the non-availability of dry ice in the Omak/Tonasket region, KET completed inerting of the 300-gallon UST with CO<sub>2</sub> fire extinguishers and a static grounding cable. Tank atmospheres were tested for CO<sub>2</sub>, LEL and oxygen concentrations prior to removal and staging. KET field personnel reviewed atmospheric parameters with Corps personnel prior to removal. Tanks were excavated and removed in accordance with acceptable industry practices and staged for dismantling and disposal/recycling off-site. Once free of cavities, the tanks were closely inspected for signs of compromise or breakthrough, or evidence that might otherwise indicate the potential for release.

Discrete representative samples were collected from the tank cavities in accordance with Department of Ecology Sampling guidelines and analyzed for gasoline-range hydrocarbons and volatile components, Benzene, Ethylbenzene, Toluene and Xylene (BETX). The long-term history of the tanks and specific gasoline fuel products was unknown. Given such, total lead concentrations were also reviewed during the sampling and analysis phase of this project.

The following scope of services were performed for this project:

- Site mobilization and work performed by competent persons with current OSHA mandated health and safety training.
- Residual product removed and tank cleaned in accordance with acceptable industry procedures. Free product tendered off-site through local recycling/re-utilization.
- The Underground Storage Tanks were removed utilizing acceptable industry practices for safe and effective excavation.
- Excavated UST's examined for signs of breakthrough and compromise.
   Dimensions, appearance and corrosion methods, if applicable, were noted and documented.
- Tank cavities evaluated for signs of contamination including visible free product, soil discoloration and odor.
- Representative soil samples were collected from the excavation boundaries and delivered to a USACE accredited laboratory for analysis of gasoline-range hydrocarbons by WTPH-G/BETX, Washington State/USEPA methods. Sampling locations were selected based on evidence of petroleum hydrocarbon contamination and as prescribed by WDOE sampling guidelines.

### 2.3 Scope-of-Work, Debris and Appliance Removal

KET was tasked with Collecting and staging debris and appliances outlined in the technical specification. Two storage sheds attached to the machine/maintenance shop contained large appliances including refrigerator/freezer units, furnace/heating units, a fire box, and miscellaneous empty containers and debris.

Empty containers were staged and reviewed for labeling information. Most containers located throughout the cabin and latrine areas were legally empty, meaning they contained less than one (1) percent of their original contents. Empty containers were staged and bagged for subsequent disposal through the Ellisforde Transfer Station located on Oroville. Large appliances were staged for dismantling, loaded and transported to the Ellisforde transfer Station for recycling

### 2.4 Hazardous Waste Management

Various containers of potentially hazardous materials were located within the machine shop building. KET representatives conducted a thorough inventory of these materials (table 1).

Table 1. Inventory of Hazardous Material Whiteaker Farm, Tonasket, Washington

Description of Materials	# of Containers	Container Type	Qty of Waste
Oil/Water detergent Solution/Mixture	1 x 5 gallon	PB	2.5 gallon
Supracide Methidathion Xylene Range Solvent	1 x 5 gallon	MC	4 gallon
Activate-3 Wetting Agent	1 x 1 gallon	PB	0.5 gallon
Mineral Oil	1 x 1 quart	GB	1 pint
Chevron Heavy Duty Grease	1 x 1 pint	PB	1 pint
Rain Seal Caulking Compound	2 x 4 oz.	P -Tube	8 oz.
Permatex Adhesive Sealant	1 x 4 oz.	P-Tube	4 oz.

Table 1 cont'd

Description of Materials	# of Containers	Container Type	Qty of Waste
Flecto Urethane	1 x 1 pint	MC	1 pint
Weldon PVC Cement	1 x 1 quart	MC	1 quart
Oil Filters	1 x 1 quart	MC	1 quart
Kem-Glo Semi-Gloss Enamel	1 x 1 quart	MC	1 quart
Aluminum Brazing Flux	1 x 1 pint	GB	1 pint
Mac's Tar Remover Petroleum Distillate	1 x 1 pint	MC	1 pint
Franklin Construction Adhesive Acetone, Petroleum Distillates	2 x 4 oz.	PB	8 oz.
Butacide Piperonyl Butoxide Solution	1 x 1 gallon	MC	1 gallon
Ace Camp Fuel - White Gas	1 x 1 gallon	MC	1 gallon
Decamine 4-D Amine Salt of 2,4-D	1 x 1 gallon	MC	0.25 gallon
Semi-gloss Enamel	1 x 1 gallon	MC	1 gallon
Ammonium Nitrate	3 X 80 Pound	Fiber	220 Pounds
Zinc Sulfate	5 x 20 Pound	Fiber	200 Pounds
Cyclo Carberator Cleaner MEK, Acetone, IPA	1 x 12 oz.	Aerosol	12 oz.
Battery Terminal Protector 1,1,1-trichloroethane	1 x 12 oz.	Aerosol	12 oz.
Cut/tapping Oil - Methylene Chloride, 1,1,1-trichloroethane	1 x 12 oz.	Aerosol	12 oz.
Deep Woods Off	1 x 12 oz.	Aerosol	12 oz.
Chrome Aluminum Spray Paint Petroleum Distillates, VOCs	1 x 12 oz.	Aerosol	12 oz.
Olympic Oil Stain	1 x 1 gallon	MC	1 gallon

Hazardous wastes were characterized, designated, profiled and packed for disposal through a fully permitted Treatment, Storage and Disposal facility. Hazardous wastes staged at the Whiteaker Farm site were loaded and transported off site on 30 June 1997. These materials were transported via Uniform Hazardous Waste Manifests (UHWMs) and were tendered to the following permitted facilities.

### Treatment Storage and Disposal Facility

Ensco West, Inc. 1737 East Denni Wilmington, CA 90744 CAD004429835 (310) 835-0775

### **RCRA Subpart O Incinerator**

Ensco, Inc. 309 American Circle El Dorado, AR 71730 ARD069748192 (870) 863-7173

Copies of UHWMs, land disposal restriction notification forms and associated drum packaging lists are located in the appendix of this document. Other solid wastes and debris were reviewed through applicable federal, state and local regulations governing hazardous and solid wastes. All items were submitted to:

### Ellisforde Transfer Station Okanogan Valley Disposal/Upper Valley Disposal 32707 Highway 97 Oroville, WA

Recyclable items were transported to the transfer station upon approval. Other items classified as solid debris and trash (empty containers) were disposed through municipal trash waste streams.

#### 3.0 Site Characteristics

### 3.1 Site Description

The site is identified as the former Whiteaker Farm, located in Okanogan County approximately 5 miles north on Highway 7. The property lies 0.4 miles southwest of the intersection of Sylvester Road and Highway 7. The site address is 41 Sylvester Road, Tonasket, Washington 98840. The legal description of this property is T38N, R27E, S27, Tonasket, Washington.

The subject property includes 20.06 acres of orchard/agriculture land and contains a main residence, labor cabins, a wind machine and a machine/maintenance shop. The surrounding orchards are currently under lease to others.

The machine shop/maintenance structure consists of the main shop, two storage sheds on the south side of the building, a lean-to structure attached to the west side of the main building. A fuel shed existed on the north side of the building adjacent to the main entrance and set back approximately five (5) feet from the orchard access road. A 300 gallon fuel storage (gasoline) UST was located directly beneath the fuel shed. A fuel dispensing pump was located adjacent to the fuel shed directly along the orchard access road.

The machine shop interior contained an array of fertilizers, hazardous materials and assorted debris and equipment. Several refrigerators and a fire box insert were located along the south wall of the main shop area.

A wind machine is located midway along the orchard access road between the main residence and Highway 7. Immediately north of the concrete pad supporting the wind machine was an UST. the UST was utilized to store gasoline to fuel the wind machine generator. The fuel product was gasoline rather than diesel as outlined in the technical specifications.

Several labor cabins are located between the wind machine area and the machine shop. Central to the labor cabins is a latrine facility. Various empty containers were dispersed throughout this area. Labeling of the containers indicated they previously stored chemical pesticides and anti-freeze. Containers deemed legally empty were packaged and managed as solid wastes.

### 3.2 Local Geology

The subject property is elevated above the Okanogan river south of the Ellisford Basin on the east side of the Cascade Mountain range. The region is primarily a rhyolite overlain by a basalt veneer. The Okanogan River, a prominent geographic landmark flows east of Highway 7 through the basin and range valleys.

### 3.3 Soil and Water Conditions in UST Excavation/Cavity

Overburden soils encountered in the UST cavities consisted primarily of a loamy material predominantly a light to dark tan unconsolidated fine-grained material with minor silt composition. The material was utilized as a fill to accommodate the placement of the UST's. Native soils beyond the scope of the excavation boundaries were not explored or assessed. Groundwater was not encountered in either of the UST cavities.

#### 4.0 Assessment Procedures

### 4.1 Underground Storage Tank - Wind Machine

The UST was effectively removed from the ground and the cavity surveyed for stained and/or odorous soil. A dark gray or green color variation in the soil is often indicative of petroleum contamination. No discernible odor was noted in the cavity after removal of the UST. The exhumed tank and product piping were inspected for visible cracks, seam failures, rust and staining to identify a potential release source. The UST was in excellent condition, exhibiting no visible signs of compromise or discernible areas of breakthrough. Overburden soils removed during initial excavation activities were temporarily stockpiled adjacent to the cavity on 20 mil bermed visquine and covered per standard industry practices.

Specific Soil screening (PID) was not employed for selecting soil sampling locations. the aerial extent of the tank excavation was minimal, thereby reducing and minimizing the areas of soil to be examined. Sampling locations were selected based on the orientation of the tank and the former supply and return lines. Soil sampling locations are represented in figure 4.

### 4.2 Underground Storage Tank - Machine Shop

Prior to removal of the UST, the fuel shed housing the fill lines and other appurtenances was demolished. The debris from the shed demolition was disposed of off site with other debris and solid waste. The fuel dispensing unit was dismantled and removed with the fuel shed.

The UST was effectively removed from the ground and the cavity surveyed for visible and olfactory evidence of a petroleum release. No variation in soil color was noted, however a gasoline odor emanating from the southeast cavity wall was detected. The exhumed tank, piping and appurtenances were inspected for evidence of breakthrough or visible staining indicating a product release. The UST was observed to be in satisfactory condition with no detectable signs of failure. Overburden soils removed from the tank cavity were stockpiled west immediately adjacent to the excavation area. Stockpiled soils were placed on 20 mil bermed visquine.

Specific soil screening procedures (PID) were not conducted based on the limited scope of the excavation (300 gallon tank). Soil sampling locations were selected based on predetermined locations based on the orientation of the tank and olfactory evidence of petroleum contamination. Soil sampling locations are represented in figure 5.

### 4.3 General

Soil samples are retained for laboratory analysis based on field observations and prespecified locations. Soil samples were collected from discrete areas within the tank cavities based on field observations, potential for petroleum migration and the orientation of the tank within the cavities. At a minimum, three (3) initial samples were collected from the tank excavations and one grab sample from the soil stockpile. Dispensing units and supply lines were located over the tank cavity sites and were eleminated when the tanks were excavated and removed. No additional sampling for UST piping was required.

The soil sampling was conducted in accordance with KET's Sampling and Analysis Plan (SAP). The objectives of the sampling plan included:

- Documenting decommissioning and removal of two UST's.
- Determining the concentrations of petroleum hydrocarbons utilizing accepted WTPH-G/EPA methods for subsurface soil samples collected.
- Comparing the concentrations of gasoline range hydrocarbons in soil and groundwater (where applicable) collected from the subsurface soil to WDOE soil and groundwater cleanup standards; and
- Preparing a final report documenting the decommissioning, removal and disposal of the tank, the field and analytical results, and KET's conclusions and recommendations.

#### 5.0 Field Observations

#### 5.1 Wind Machine - UST

The UST was emptied of free product, inerted, removed from the ground and inspected for signs of release. Physical information pertaining to the UST is presented in table 2.

Table 2. Summary of UST Physical Data Wind Machine, Whiteaker Farm

Tank#	Composition	Protected			Capacity (gallons)		
1	Steel	None	4.0	6.0	500	Unknown	Gasoline

A representative of KET conducted a tank atmosphere inspection prior to removal. Atmospheric testing is typically performed as a condition of a removal permit. the tank atmosphere exhibited a concentration of > 60% carbon dioxide by IS410x  $CO_2$  analysis. LEL concentrations ranged from 6-11% with an oxygen level at 11.5%. The tank atmosphere was certified as inert based on these measured parameters.

representative soil samples were collected from the excavation boundaries. Due to the limited scope of the excavation samples were collected from; 1) directly beneath the tank, 2) the north and east side walls at the base of the tank (composite), and 3) the south and west walls at the base of the tank (composite). An additional sample was collected from the stockpiled soil adjacent to the cavity.

Based on lack of visual and olfactory evidence of petroleum contaminants, the excavation was lined with 10 mil visquine and backfilled prior to publication of analytical chemistry data.

Stockpiled soil was utilized as primary backfill for the tank cavity. An addition 7 to 10 yards of imported type 17 material was utilized to bring the resulting cavity back to grade. Type 17 materials were utilized based on compaction and existing site soil types. Mechanical compaction was completed with a backhoe. No load-bearing compaction standards were specified for this site.

### 5.2 Machine Shop - UST

The UST was emptied of residual product, inerted tested, removed from the ground and inspected for signs of release. Physical information pertaining to the UST is presented in table 3.

Table 3.
Summary of UST Physical Data
Machine Shop, Whiteaker Farm

Tank#	Composition						Former Contents
2	Steel	None	3.0	5.0	300	Unknown	Gasoline

A representative of KET conducted tank atmosphere testing prior to removal. The tank was inerted utilizing carbon dioxide. Atmospheric concentrations were measured at < 60% CO<sub>2</sub>, 2-3% LEL, and oxygen at 12.2%. The tank atmosphere was certified as inert based on these measured parameters.

Representative soil samples were collected from the excavation limits. Due to the limited scope of the tank excavation, samples were collected from; 1) directly beneath the tank, 2) the north and west walls at the base of the tank (composite), 3) the south wall of the cavity at the base of the tank, 4) the east wall, and 5) the stockpiled soil adjacent to the cavity. Samples described under 3, and 4 were collected as discrete samples based on the discernible odor of gasoline detected in these two areas.

The decision was made to line and backfill the cavity prior to availability of analytical data. The depression in this area was very shallow making it conducive to access and remove underlying contaminated soil as necessary. the tank cavity was lined with 10 mil visquine and backfilled utilizing native stockpiled soil. Mechanical compaction was achieved with a backhoe. No load-bearing compaction standards were specified for this site.

### 6.0 Soil Sampling and Analytical Data

Representative subsurface samples were collected as described in field observations. These samples were collected in laboratory supplied containers, labeled appropriately, placed in a chilled cooler, and transported to North Creek Analytical (NCA), a US Army Corps accredited laboratory. Samples were tendered at or near 4 degrees Celsius. Chain-of-Custody forms were utilized by NCA as cooler receipts. Any discrepancies in cooler conditions were noted on this document. Additional USACE mandated cooler receipts are located in the chemistry QA/QC appendix of this document.

#### 6.1 Wind Machine - UST

NCA assayed soil samples for gasoline range hydrocarbons utilizing Washington State Test Method WTPH-G. Volatile components Benzene, Ethylbenzene, Toluene and Xylene (BETX) were quantified utilizing EPA Method 8020A. Analytical laboratory data is summarized in table 4 and 5.

Table 4.
Summary of Analytical Results
Excavation, Wind Machine, Whiteaker Farm
Analyzed by Method WTPH-G

Sample #	Location	Depth (ft)	Matrix	Analysis	Concentration (mg/kg)	Action Level WDOE
6721-WIT-GTW-1	Base	6.0	Soil	WTPH-G	· ND	100
6721-WIT-GTW-2	SE Comp.	4.5 feet	Soil	WTPH-G	ND	100
6721-WIT-GTW-3	West Wall	4.3 feet	Soil	WTPH-G	ND	100
6721-WIT-GTW-4	Stockpile	Grab	Soil	WTPH-G	ND	100

Table 5.
Summary of Analytical Data
Excavation, Wind Machine, Whiteaker Farm
Analyzed by EPA Method 8020A - BETX

Sample #		BETX	(mg/kg)		Regulato	ry Limits - WD	OE
6721-WIT-GTW-1	Benzene	ND	Ethylbenzene	ИD	Benzene 0,5	Ethylbenzene	20,0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTW-2	Benzene	ND	Ethylbenzene	ND	Benzene 0,5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTW-3	Benzene	ND	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
1	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTW-4	Benzene	ND	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0

The service history of the tank was unknown other than it was utilized to store and supply gasoline to operate the wind machine. Based on the unknown length of service, total lead concentrations were analyzed. These results are summarized in table 6.

Table 6.
Summary of Analytical Data
Excavation, Wind Machine, Whiteaker Farm
Total Lead, EPA 6000/7000 Series

Sample #	Total Lead (mg/kg)	Action Level (mg/kg)
6721-WIT-GTW-1	131	250,0
6721-WIT-GTW-2	51.3	250.0
6721-WIT-GTW-3	89.5	250.0
6721-WIT-GTW-4	75.4	250.0

Laboratory results (tables 4,5,6) indicate that petroleum hydrocarbons typical of a gasoline range fuel product were not detected in soil samples collected from the tank cavity or stockpile. Subsurface soil associated with the tank closure activities are not regulated under WDOE guidelines and standards published in Chapter 173-340, WAC

Confirmational sampling results indicate the wind machine excavation site was appropriately and effectively closed under industry guidelines, and concentrations exhibited in collected samples demonstrate the site was in a non-contaminated condition below WDOE standards (action limits) for gasoline range hydrocarbons and associated components.

### 6.2 Machine Shop - UST

Subsurface soil samples were assayed by NCA for gasoline range hydrocarbons utilizing Washington State Testing Method WTPH-G. Volatile components (BETX) were

quantified utilizing EPA Method 8020A. Analytical laboratory data is summarized in tables 7 and 8.

Table 7. Summary of Analytical Results Excavation, Machine Shop, Whiteaker Farm Analyzed By Method WTPH-G

Sample #	Location	Depth (ft)	Matrix	Analysis	Concentration (mg/kg)	Action Level WDOE
6721-WIT-GTM-1	Base	3.5	Soil	WTPH-G	ND	100
6721-WIT-GTM-2	NW Comp	2.5	Soil	WTPH-G	ND	100
6721-WIT-GTM-3	East - Base	2.7	Soil	WTPH-G	ND	100
6721-WIT-GTM-4	Southeast	· 3.4	Soil	WTPH-G	ND	100
6721-WIT-GTM-5	Stockpile	Grab	Soil	WTPH-G	7.62	100

Table 8.
Summary of Analytical Results
Excavation, Machine Shop, Whiteaker Farm
Analyzed by EPA Method 8020A

Sample #		BETX	(mg/kg)		Regulato	ry Limits - WD0	)E
6721-WIT-GTM-1	Benzene	<b>1.68</b>	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTM-2	Benzene	ND	Ethylbenzene	ND	Benzene 0,5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40,0	Xylenes	20.0
6721-WIT-GTM-3	Benzene	ND	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTM-4	Benzene	ND	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0
6721-WIT-GTM-5	Benzene	ND	Ethylbenzene	ND	Benzene 0.5	Ethylbenzene	20.0
	Toluene	ND	Xylenes	ND	Toluene 40.0	Xylenes	20.0

Similar to the tank fueling the wind machine, the length of service for the UST located near the machine shop was unknown. Receipts made out to Jim Whiteaker found in the machine shop indicated the tank dated at least as far back as July 1983. Based on the unknown length of service of the tank, total lead concentrations were analyzed. Total lead results are summarized in table 9.

Table 9.
Summary of Analytical Data
Excavation, Machine Shop, Whiteaker Farm
Total Lead, EPA 6000/7000 Series

Sample #	Total Lead (mg/kg)	Action Level (mg/kg)
6721-WIT-GTM-1	27.3	250.0
6721-WIT-GTM-2	33.7	250.0
6721-WIT-GTM-3	ND	250.0
6721-WIT-GTM-4	13.9	250.0
6721-WIT-GTM-5	20,2	250.0

Laboratory results (tables 7, 8, 9) indicate that petroleum hydrocarbons typical of a gasoline range fuel product were not detected in subsurface soil samples or were detected in concentrations significantly below Washington State cleanup standards. Sample 6721-WIT-GTM-1 collected from below the base of the exhumed tank did exhibit a concentration of benzene of 1.68 mg/kg, slightly elevated above Washington State Method A cleanup levels for soil at 0.5 mg/kg. This cleanup level is based on protection of groundwater. Based on the low levels exhibited by other samples at this location and the depth to groundwater (60-80 feet) in this area, this should be considered insignificant in the overall scope of this project. Total lead concentrations were below Method A cleanup standards.

Confirmational sampling results indicate the tank/excavation site was appropriately and effectively closed under industry guidelines. Concentrations exhibited in the subsurface soils demonstrate the site was in a non-contaminated condition below current WDOE guidelines and standards published in Chapter 173-340 WAC.

### 7.0 Summary/Discussion

Kleen Environmental Technologies, Inc. mobilized and completed site tasks associated with Underground Storage Tank and removal Specifications, DACW67-96-M-0893. Stockpiled soils were staged adjacent to the excavation during site activities. Stockpiled soils tested and deemed "clean" were utilized to backfill the tank cavities. Approximately 6 to 10 yards of imported type 17 soil were utilized to complete backfilling and return the two tank sites to pre-existing grade. Stockpiled native soils were utilized to complete the backfill to match existing surface soil conditions. The excavated areas were mechanically compacted. No load-bearing compaction standards were indicated for this site.

All hazardous materials/wastes identified and inventoried at the Whiteaker Farm Site were characterized, packaged, transported and disposed in accordance with all applicable federal, state and local regulations and guidelines. Solid waste and debris inventoried at the site along with demolition debris from the fuel shed were disposed through the Ellisforde Transfer Station in the Upper Okanogan Valley.

Prior to demobilization, the site was returned to a safe pre-existing condition.

#### 7.1 Affected Media

Subsurface soil samples were determined to be non-impacted based on sample results of non-detectable or trace concentrations from data generated by North Creek Analytical. Evidence from general site observations indicated that the UST's were in satisfactory condition and bore no indication of leakage or failure. Additionally, product piping removed from the two tank sites were observed to be in excellent condition and would be an unlikely source of petroleum release. The minor concentrations of gasoline range hydrocarbons detected in the machine shop area, may be attributed to overfilling of the storage vessel, or poor handling and housekeeping practices.

Although determining the site specific groundwater elevation was beyond the scope of this project, no groundwater was observed in either of the tank cavities and was not addressed as an issue of concern. There are no local groundwater monitoring well logs for this site. It is the opinion of the contractor described herein, that no further action is warranted at this site, based on UST and waste management activities.

### 7.2 Material Disposal and Backfill

Residual and free product was removed from the tanks and tendered to an adjacent farm for reutilization as a fuel product constituting use for its original intended purpose. UST's were dismantled on site and tendered to Upper Valley Disposal for scrap metal recycling. Other site debris was tendered to the Ellisforde Transfer Station as trash and recyclable commodities. Hazardous wastes were transported and received by Ensco, Inc. and Ensco West, Inc. for treatment and incineration.

There were no petroleum impacted soils removed from this site. Results of the subsurface investigation did not identify levels of gasoline/petroleum hydrocarbons in excess of set regulatory action limits. Both excavated areas were backfilled with native stockpiled soils and imported type 17 material. the site was restored to a safe condition by completion of all site activities on 2 July 1997. Site specific criteria for this project have been adhered to and completed as authorized.

#### 8.0 Limitations

This work was performed, and this report prepared in accordance with generally accepted industry practices for the nature and conditions of the work completed in the same or similar localities at the time the work was performed. Site tasks were completed in accordance with UST removal and Petroleum Contaminated Soil Specifications originally set forth in contract number DACW67-96-M-0893. Kleen Environmental Technologies' results and findings from the sampled areas do not necessarily reflect soil conditions underlying other site areas not investigated.

Conclusions and opinions set forth in this document should not be construed as scientific certainties, but as opinions based on our professional judgment concerning the significance of the data gathered during the course of site investigation. No other warranty, expressed or implied, is offered. Any questions regarding this scope of work and report, the presentation of the information, and the interpretation of the data, are welcome and should be directed to the undersigned.

Prepared and Submitted by:

Darin Č. Perrollaz Project Manager

Registered Site Assessor

Date: 2/16/58

Reviewed by:

Robert L. Olson Manager, Operations

Date: <u>2/17/9</u>8

**Attachments** 

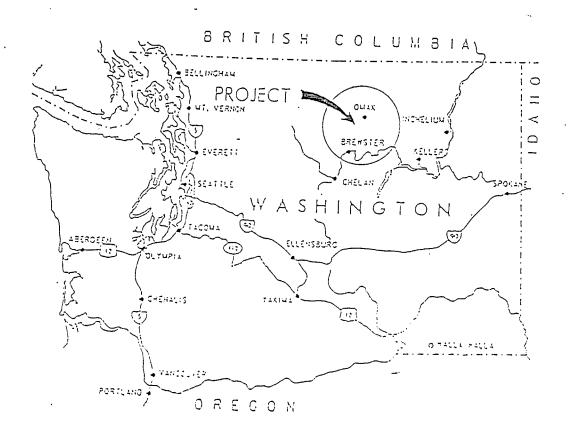


Figure 1. Project Vicinity Map Site: Whiteaker Farm Tonasket, WA

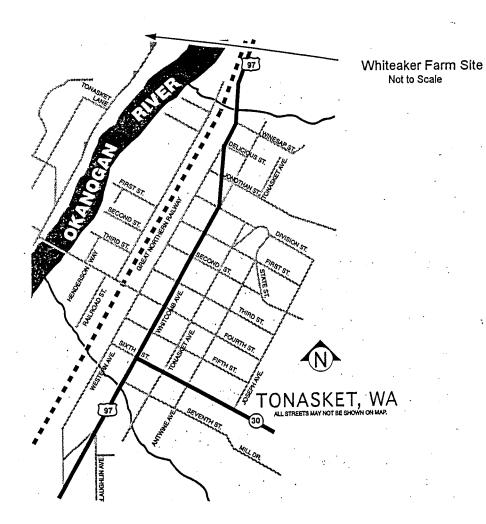


Figure 2. SIte Vicinity Map Site: Whiteaker Farm Tonasket, WA

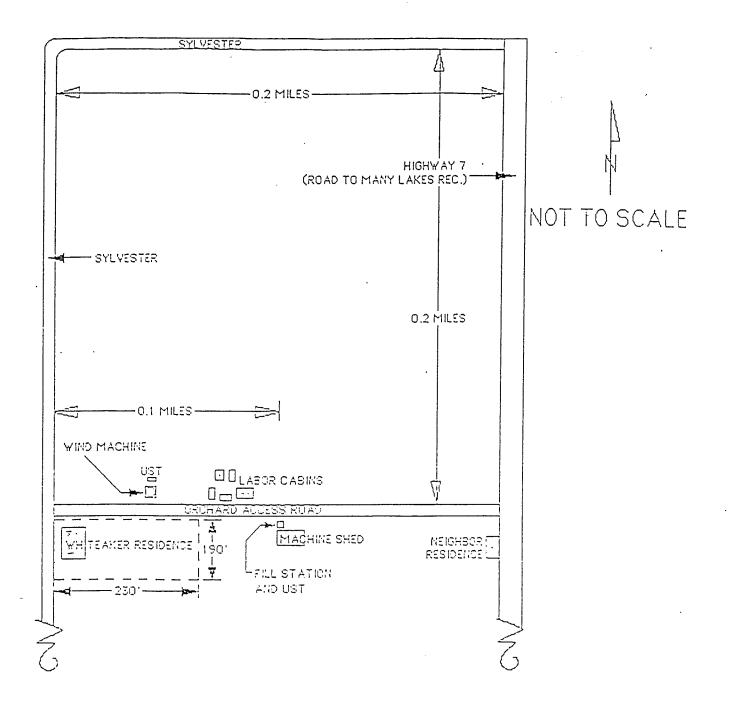
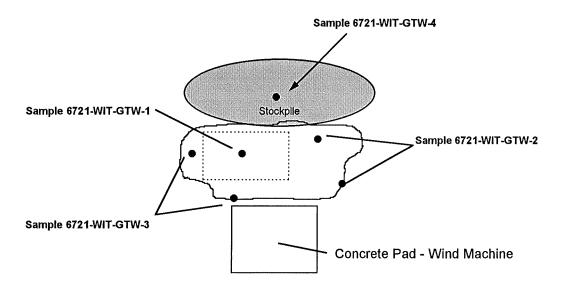


Figure 3. SIte Feature Map Whiteaker Farm Tonasket, WA



Orchard Access Road To Machine Shop ───────────

Scale 1" = 5'

Figure 4. Sampling Locations, Wind Machine Whiteaker Farm



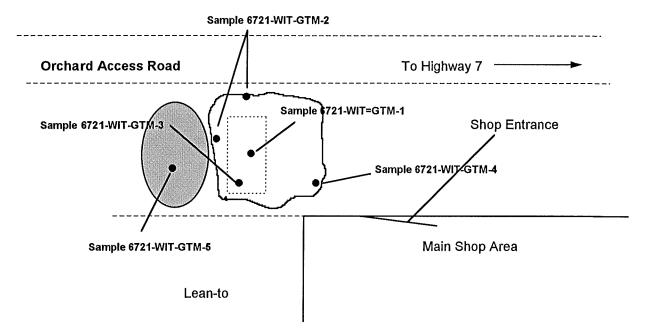


Figure 5. Sampling Locations, Machine Shop Whiteaker Farm

Scale 1" = 5'

### Appendix A

Field Sample Checklist



Kleen Environmental Technologies, Inc.

Date: 10/30/96

Project Name:	whileder Farm - Toraslet	Sample Collector:	Spin C. Perrollal
Project Number:	6721 - wind Hadin		
Sample Number:	6721-WIT-GTW-1		Baze of Guilly

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	6.0
Location:	Base of	Pank Cavity +	Below lovest point	reftant = a"

# de veces (children de la contraction)

Light for - Bruin Lorny Sand - unconsolidated material - Little to no gravel scripte from 8 to \$10 indes below knest point of Tark

No Discerhible odor



# Sample Checklist

Kleen Environmental Technologies, Inc.

Date: 6/30/56

Project Name:	whitedoor Farms	Sample Collector:	Saria C.	Poro Os
Project Number:	6721 - wind Madine	Sample Matrix:	Scil	position
Sample Number:	6721-WIT-GTW-2			

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	4.5 feet
Location:	SE V	vall camposite		(1.5)

Light form to Braun, same composition as sample 1

Composite well sample

No Discemble odor

1700



Kleen Environmental Technologies, Inc.

10/30/96 Date:

Project Name:	Whiteaker Farm - Toroskes	Sample Collector:	Sain C	Perrolla
Project Number:	6721 - wind Hadine	Sample Matrix:	Soil	Terrose
Sample Number:	6721-WET-GTW-3		301/	

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	4.3'
Location:	west	- North wall	Composife	

### ---- Description ----

Light tente Brown - Sample Composition as Sample 1

No discernible odor

1200



# Sample Checklist

Kleen Environmental Technologies, Inc.

Date: 10/30/95

whiteaker Farm-Torisket	Sample Collector:	Janus C	. Perrolle
		- Count C	- PULLULA I
6721- wind Madine	Sample Matrix:	Sail	
		9011	
6721-WIT-65W-4			
	6721- wind Hadire	10 401	6721- wind Hadire Sample Matrix: Soil

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	Stekpile
Location:	Stockpile	8-12" Grab sa	mle	

	Description	
--	-------------	--

Light ten - Brown some composition as sample 1

No discernible oda-

1500



Kleen Environmental Technologies, Inc.

Project Name:	whiteder Farm	Sample Collector:	Darin C. Perrolla
Project Number:	6721 - Hachine shop	Sample Matrix:	Scil Scil
Sample Number:	6721 - WIT - GTH-1		3011

Type of Sample:	Grab	Auger	Composite	Discrete)
Depth:	Surface	Boring/Bucket	in feet	3.5 feat
Location:	force of Tai	nk Cavify - 8-10	" below " Fl	

Description			
Gray Brown coarse sand & gravel w/ cobbes			
collailed 8-10" below bush point of Tank			
No Discernible odar	· .	BOO	



# Sample Checklist

Kleen Environmental Technologies, Inc. Date: 10/31/96

Project Name:	whiteeler Farm	Sample Collector:	Darin C.	Penrolle
Project Number:	6721 - Machine shop	Sample Matrix:	Soil	· Pennoule
Sample Number:	6721- WIT-674-2			

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in fee	t 2.5'
Location:	Noth-u	est wall composit	k	

Description				
GRI4 (Brown compacted course sand of grown)				
No Discernilo odar	BOS			



Kleen Environmental Technologies, Inc.

Date: 10/31/96

Project Name:	whiteaker Ferm	Sample Collector:	Darin C. Perrolla
Project Number:	6721 - Machine shoo	Sample Matrix:	Seril
Sample Number:	6121 - WIT - GTH - 3		33,(

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	2.71
Location:	East wal	1-Base		,

### ---- Description ----

Graf (Brown compacted large sand 2 grave)

Faint distinct gaseline oder

300



# Sample Checklist

Kleen Environmental Technologies, Inc.

Date: 10/31/96

Project Name:	whiteker Ferm	Sample Collector:	Jani C-	ferrolled
Project Number:	6721 - Madine Shop	Sample Matrix:	Sert	
Sample Number:	6721-WIT-GJA-4			

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	: 3, u '
Location:	Suft-8	sast wall corposi	ile	

	Des	eript	ion	
--	-----	-------	-----	--

Graf Brown Compacted Coarse send & gravel

Paint Distinct dasoline odar

1300



Kleen Environmental Technologies, Inc.

Date: 16/31/96

Project Name:	whitedow Ferm	Sample Collector:	Joseph C. Peresolla
Project Number:	6721 Hodise shop	Sample Matrix:	Sail
Sample Number:	6721 - WIT - GTM -5		

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	Stekaslo
Location:	skilps le			700

	Description	
--	-------------	--

Madiny to Coarse sand I gravel

No discernible oder

1300



# Sample Checklist

Kleen Environmental Technologies, Inc. Date:

Project Name:	Sample Collector:	
Project Number:	Sample Matrix:	
Sample Number:		

Type of Sample:	Grab	Auger	Composite	Discrete
Depth:	Surface	Boring/Bucket	in feet	
Location:				

Description				

### Appendix B

Underground Storage Tank Checklist UST Closure, Whiteaker Farm

### **UST Checklist**

Date: 10/30/9	6		Proj€	ect #	6721
·	mmissioner:	Darin C. Per	<u> </u>		California
Site Location/D	escription: while	reaker Farm	- USACE	·	_
Physical Addres	ss: 41 Sylveste	er load			
City/State/Zip:	Torresteet,	WA			_
	Klasy Envivenme				
Tank #:			Product:		
Size/Volume:	500 galla		Dimension:	4' x	6.0'
Product 2	Removed		☐ Triple	Rinsed	l
Tank Purge Method: 15 fands dr. Toe  If Dry Ice, Record Quantity used per Volume of Tank					
Confined Air Space Monitoring					
Test For:				. 11	
Hazard	Acceptable Range	e Reading		eptable No	
% Oxygen	19.5 - 22%	11-58			

% LEL

CO

 $H_2S$ 

10% or Less

Function/Name of Instrument Used				
Industrial Scientific 410 1 Calibration Date 10/12/96  Calibration Date				
Continuous/Periodic testing must be performed BEFORE/DURING entry.				
Test Performed: fre-remail Zero'd to comprise air  Person who tested for a lerrolla				
Special Equipment Nac				
☐ Fire Department Permitted				
Tested/Type				
Inspector				
Comments				
· i				

### **UST Checklist**

Date: 1031 96	Project # <u>6421</u>				
Licensed Decommissioner:  Washington	Oregon California				
Site Location/Description: white	ber Farm - USACE_				
Physical Address: 41 Sylvester	- Road				
City/State/Zip: Tonasket v	uA				
Performing for: <u>Vleen</u> Environme					
Tank #:2	Product: Geseline				
Size/Volume: 300 gallar	Dimension: 3' x 5.0'				
Product Removed	☐ Triple Rinsed				
Tank Purge Method: CO3 Dry Fire Extinguister  If Dry Ice, Record Quantity used per Volume of Tank					
Confined Air Space Monitoring					
Test For:					
Hazard Acceptable Range	Acceptable Reading Yes No				
% Oxygen 19.5 - 22%	12.26				
% LEL 10% or Less	<u>-3/-</u>				
<i>c</i> 2					
CO	160% Acaptable faravailors for inert atmosphere				

Function/Name of Instrument Used			
Industrial Sciatific 410 \ Calibration Date 10/19/66  Calibration Date			
Continuous/Periodic testing must be performed BEFORE/DURING entry.			
Test Performed: fre-lemand Zero'd to ambient air  Person who tested arm C _ Porrolland			
Special Equipment Nac			
☐ Fire Department Permitted			
Tested/Type U/A			
Inspector			
Comments			

### Appendix C

Analytical Chemistry Data
UST Closure, Whiteaker farm
Case Narrative
Analytical Data Package
Sample Chromatograms
Total Lead Sample Data Summary



### **Case Narrative**

CLIENT:

Kleen Environmental Technologies, Inc.

June 30, 1997

PROJECT:

**Okanogan Farms Restoration** 

U.S. Army Corps of Engineers (Project #6721)

NCA#:

P611082

### 1.0 DESCRIPTION OF CASE

Thirteen soil samples were received on 11/01/96 for analysis by WTPHG/BTEX and Total Lead. Two separate analytical reports were issued, one for each analyte (WTPHG/BTEX 11/20/96; Lead 2/17/97).

### 2.0 SAMPLE LIST

Refer to the chain of custody documents for a summary of sample information.

Each group of samples received is given an SDG #. This number consists of a two digit code for the year and a sequential number for the group within the year. Each sample within the group is numbered sequentially by placing a dash after the SDG#.

#### 3.0 COMMENTS ON ANALYSIS

### 3.1 Sample Receipt

All samples were received intact from Kleen. All samples were well iced, clearly marked, and matched the chain of custody. Refer to the Cooler Receipt Form for more information.

### 3.2 Analysis

All samples were analyzed following the procedures outlined in the applicable methods. All samples were refrigerated at 4 degrees Celsius, and were extracted and analyzed within the EPA recommended holding time.

### 4.0 QC RESULTS

All surrogates and quality control parameters were within established control limits.



### 5.0 Sample Results

Where applicable, qualifiers have been added to sample results. Refer to page 5 of the analytical report for the complete text.

Qualifier #1 was inadvertently omitted from sample P611082-08 on page 3 of the report.

If reanalysis of a sample was required due unacceptable surrogate recovery, only the final data is reported on the analytical report. The requirement for both sets of data to be reported was not specified prior to analysis.

The MRL for Gasoline Range Hydrocarbons was raised due to the prescence of analyte in the method blank.

"I certify that this data package is in compliance with the method, both technically and for completeness, for all conditions other than those listed above. Release of the data in this hard copy data package has been authorized by the Laboratory Director or his designee, as verified by the following signature."

Susan Schimelfining, Quality Assurance Manager



### **DATA PACKAGE**

### WTPH-G/BTEX Pb Total ICP 6010A

CLIENT: Kleen Environmental Technologies Inc.

PROJECT: Okanogan Farms Restoration (Project #6721)

SDG#: P611082

The total number of pages in this data package is:

58

Prepared by:

NORTH CREEK ANALYTICAL SERVICES
9405 SW Nimbus Avenue
Beaverton, Oregon 97005-7132
(503) 643-9200



**Chain of Custody** 

**Cooler Receipt Forms** 

Transcribed on

### NORTH CREEK ANALYTICAL, INC.

ARMY CORPS - SAMPLE COOLER RECEIPT FORM 3-18-97
(Use other side of form if more room is required for comments) (Use other side of form if more room is required for comments)

S. Mc Clay

Date Received: 11-6-97 Number of Coolers:		
Consultant/Project I.D.: PH SIM PG/1082		
PRELIMINARY EXAMINATION		
Date cooler was opened: 1/-6-96		
by (print): Karin Stanley (sign):	VES NO	
1. Did cooler come with shipping paperwork (airbill, etc.)?	(YES NO	
If YES, enter carrier and airbill number here:	x222 (VO)	
2. Were custody seals on outside of cooler?	YES (NO)	ž.
3. Were custody papers sealed in a plastic bag and taped to inside of lid	AES NO	
4. Did you sign the custody papers in the proper place?	YES NO	
5. If required, was enough ice used? Type of ice: Blue Ice.	YES NO	
LOG-IN PHASE		
Date Samples were logged-in: 11-10-97		
by (print): Sara McClurg (sign): Sara McClurg		
6. Describe type of packing used in the cooler: Bubble wrap		
7. Were all bottles sealed in separate plastic bags?:	(YE3 NO	
8. Did all bottles arrive unbroken?:	(YES) NO	
9. Bottle labels  Were labels intact and legible?:	YES NO YES NO	
10. Were correct containers used for the tests indicated?:	(YES) NO	
11. Were correct preservatives added to samples?	AE2 NO (AE2) NO	
13. Were bubbles present in VOA samples?: If YES list samples:	YES NO	N4
14. Were there any problems?:	YES (NO)	
If YES, was a deficiency report filed?: with whom?: date:		

ANALYTICAL Environmental Laboratory Services NORTH S, OREEK

CHAIN OF CUSTODY REPORT

Work Order # [Pe/1078 62 ]

East 11115 Montgomery, Suite B. Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 48

J FAX 485-2992

18.7° Sumc Day TIME/63, Turnaround Requests less than standard may incur Rush Charges. TURNAROUND REQUEST in Business Days \* COMMENTS Fuels & Hydrocarbon Analyses

3-4

2

1

Same
Day 7 CONTAINERS # OF 5 Specify: OTHER (W. S, A. O) (=) MATRIX ALL A. Klaen Environment l'Tachnologies NCA QUOTE #: Keceived: x ferralls2 RECEIVED BY (Signature) RECEIVED BY (Signature PRINT NAME: PRINT NAME: X138 3-Halm X X Pris. DATE: 11/01/56 TIME: 1/55/ \ 1 DATE:// INVOICE TO: ATTENTION: 1 and TIME: P.O. NUMBER: 7 Analysis FIRM: Klan Ens. Pellon-NCA SAMPLE ID HERGINBENS Colley - NCA BetreLL 110996 FAX: (306) 2855 - 9646 ſΠ Pennalle Suite 6721-GK-GTA NW COMP. 10/28/76 1530 6731-WIT-Got -4 stepped 10/30/96 1500 6721-COX-GTS SECOND. 1428/96 1530 GAN-WIT-G-TW-1 BSZ 10/30/96 1300 6721-WIT-GATW-3 wast 10/20/96,1500 6777-WIT-GTW- 25Eap 10/30/8 1500 6731-0ex-09-4 Statiste 1-989-6 1530 AMPLING DATE/TIME Restern fra ADDRESS: 1600 Dever Are North ATTENTION: DENIN C. PETTE 194 Southle, wot 38-109 なれる 6721-COF-GTI BSS-PHONE: (204) 285-8010 1673 Oknos CLIENT SAMPLE IDENTIFICATION र्व Arin RELINQUISHED BY (Signature) RELINQUISHED BY Signature: ADDITIONAL REMARKS: Relinguished: PROJECT NUMBER: PROJECT NAME: REPORT TO PRINT NAME: SAMPLED BY: PRINT NAME: COC Roy A, 186

NORTH
CREEK
ANALYTICAL
Environmental Laboratory Services

CHAIN OF CUSTODY REPORT

Work Order # Poilo ?

9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132 (503) 643-9200 FAX 644-2202

East 11115 Montgomery, Suite B. Spokane, WA 99206-4779 (509) 924-9200 FAX 924-9290

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 (206) 481

FAX 485-2992

S.71. Sume TIME /63, \* Turnaround Requests less than standard may incur Rush Charges. DATE: TURNAROUND REQUEST in Business Days \* COMMENTS 3-4 2 1 Same 11486 7 CONTAINERS # OF OTHER (W. S. A. O) MATRIX Ü INVOICE TO: KLAN Environmental Technelogies Perrellage NCA QUOTE #: Received: RECEIVED BY (Signature). DATE: 11/04/56 RECEIVED BY (Signature) PRINT NAME: PRINT NAME: Bris Kroh, S. BERY DATE: 11/1/92 Same TIME: (6 3/ 1/03/96 FIRM: Klay EW, Tach TIME P.O. NUMBER: ATTENTION: Analysis Request: ADDITIONAL REMARKS. Relinguished! Ry Kalley - NCA BACHEL NCA SAMPLE ID Laboratory Use Only) FAX: (206) 285-9646 Frm Restoration REPORT TO: Clean Environmental Technologies 6731-WIT-GIM-1 Bay 10/31/96 1300 6731 - WIT- GTH-3 BX2 10/31/96 1300 6731-WIT-GTH-3- C-1931/96 1300 6721- WIT-G-TH-4 S-R 10/31/96 1300 Stack 16/31/96 1300 lain C. Perrolly Ewalles 1600 Daxler Are, North SAMPLING DATE/TIME 48109 Brin C. Perrollaz PHONE: (206) 385 -8010 Southle, With okenegen 6731-いけー67れっと CLIENT SAMPLE IDENTIFICATION RELINQUISHED BY (Signature): RELINQUISHED BY (SIRMIN) PROJECT NUMBER: ATTENTION: PROJECT NAME: SAMPLED BY: PRINT NAME: PRINT NAME:

COC Res 8, 178



BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

# WTPH-G/BTEX SAMPLE DATA SUMMARY



Offices:

THELL = (206) 481-9200 = FAX 485-2992

SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

leen Environmental Technologies, Inc. 1600 Dexter Ave. North, Suite E Seattle, WA 98109

Project: Okanogan Farm Restoration Sampled: 10/28/96 to 10/31/96

Project Number: 6721

Received: 11/6/96

Project Manager: Darin C. Perollaz

Reported: 11/20/96 16:57

#### ANALYTICAL REPORT FOR SAMPLES:

ample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
721-COX-GT1 BASE	P611082-01	Soil	10/28/96
6721-COX-GT2 NW COMP	P611082-02	Soil	10/28/96
721-COX-GT3 SE COMP	P611082-03	Soil	10/28/96
6721-COX-GT4 STOCKPILE	P611082-04	Soil	10/28/96
721-WIT-GTW-1 BASE	P611082-05	Soil	10/30/96
6721-WIT-GTW-W SE COMP	P611082-06	Soil	10/30/96
₀721-WIT-TGW-3 WEST	P611082-07	Soil	10/30/96
WIT-GTW-4 STOCKPILE	P611082-08	Soil	10/30/96
6721-WIT-GTM-1 BASE	P611082-09	Soil	10/31/96
721-WIT-GTM-2 NW COMP	P611082-10	Soil	10/31/96
6721-WIT-GTM-3 EAST BASE	P611082-11	Soil	10/31/96
721-WIT-GRM-4 SAK	P611082-12	Soil	10/31/96
721-WIT-GTM-5 STOCK PILE	P611082-13	Soil	10/31/96

North Creek, Analytical, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.

loward Holmes, Project Manager



UTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

Ileen Environmental Technologies, Inc. 1600 Dexter Ave. North, Suite E

Seattle, WA 98109

Project: Okanogan Farm Restoration

Sampled: 10/28/96 to 10/31/96

Project Number: 6721

Project Manager: Darin C. Perollaz

Received: 11/6/96

Reported: 11/20/96 16:57

Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A North Creek Analytical - Portland

ı	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
721-COX-GT1 BASE			P6110	02 A1			g. n	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96	02-01	4.38	ND	Soil	
Renzene	"	11/12/90	11/15/90		0.0500	ND	mg/kg dry "	1
`oluene	11	n .	n		0.0500	2.85		
Lithylbenzene	n	,	11		0.0500	2.65 ND	11	
Xylenes (total)	н	"	,,		0.0500	2.85	H.	
urrogate: a,a,a-TFT (FID)	"	"	"	50.0-150	0.0500	60.6	%	
urrogate: a,a,a-TFT (PID)	"	"	n	50.0-150		80.	"	
<sup>2</sup> 721-COX-GT2 NW COMP			P61108	82-02			Soil	
asoline Range Hydrocarbons	1160315	11/1:2/96	11/13/96		4.38	ND	mg/kg dry	1
Benzene	19		**		0.0500	ND	"	•
iene	11	n	D.		0.0500	ND	n	
ylbenzene	11	16	11		0.0500	ND	**	
(ylenes (total)	•	n t	"		0.0500	ND	n	
Surrogate: a,a,a-TFT (FID)	"	" 3	"	50.0-150		59.2	%	
^urrogate: a,a,a-TFT (PID)	"	n .	"	50.0-150		80.0	"	
6721-COX-GT3 SE COMP			P61108	32-03			<u>Soil</u>	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
}enzene -	11	"	ti .		0.0500	ND	"	
Poluene	n	**	n		0.0500	ND	n	
Ethylbenzene	11	tr.	D .		0.0500	ND	n	
(ylenes (total)	II .	19	11		0.0500	ND	n	
urrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		59.1	%	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		79.9	n	
721-COX-GT4 STOCKPILE			P61108	32-04			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
Benzene	"	11	н		0.0500	ND	*	
Coluene	11	н	11		0.0500	ND	n	
Ethylbenzene	II.	11	17		0.0500	ND	11	
Xylenes (total)	**	11	10		0.0500	ND	11	
Surrogate: a,a,a-TFT (FID)	"	"	11	50.0-150		59.6	%	
Surrogate: a,a,a-TFT (PID)	11	"	"	50.0-150		79.6	"	
6721-WIT-GTW-1 BASE			P61108	<u>32-05</u>			<u>Soil</u>	
Jasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
`~nzene		17	11		0.0500		11	

8

North Creek Analytical, Inc.

\*Refer to end of report for text of notes and definitions.

Howard Holmes, Project Manager



Officas

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PORTLAND = (503) 643-9200 = FAX 644-2202

Correspondence to: 18939 - 120th Ave. NE, #101, Bothell, WA 98011

leen Environmental Technologies, Inc. 1600 Dexter Ave. North, Suite E

Project: Okanogan Farm Restoration Sampled: 10/28/96 to 10/31/96

Project Number: 6721

Received: 11/6/96

Seattle, WA 98109 Project Manager: Darin C. Perollaz

Reported: 11/20/96 16:57

## Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A North Creek Analytical - Portland

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
721-WIT-GTW-1 BASE (continued)			P6110	<u>82-05</u>			<u>Soil</u>	
ı oluene	1160315	11/12/96	11/13/96		0.0500	ND	mg/kg dry	
Ethylbenzene	11	u	11		0.0500	ND	10	
ylenes (total)	**	II .	"		0.0500	ND	II .	
ırrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		67.4	%	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		91.3	"	
721-WIT-GTW-W SE COMP			P61108	82_06			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96	32-00	4.38	ND		
Renzene	"	11/12/70	ļ 17 1 37 9 O		0.0500	ND	mg/kg dry "	I
oluene	н				0.0500		**	
Lthylbenzene	n	,,	0		0.0500	ND	11	
y 'nes (total)	11	n	11			ND	n	
ogate: a.a,a-TFT (FID)		" .		50.0.150	0.0500	ND		
	"	"···	"	50.0-150		70.4	%	
ırrogate: a,a,a-TFT (PID)	,,	 5	"	50.0-150		94.6	"	
<sup>2</sup> 721-WIT-TGW-3 WEST			P61108	<u> 32-07</u>			Soil	
asoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
Benzene	"	n.	"		0.0500	ND	"	
Toluene	11	*1	**		0.0500	ND	"	
thylbenzene	н	"	н		0.0500	ND	n	
ylenes (total)	11	"	11		0.0500	ND	n	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		64.5	%	
Turrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		87.6	"	
6721-WIT-GTW-4 STOCKPILE			P61108	22.08			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96	32-00	4.38	ND	mg/kg dry	
enzene	"	"	11/13/70		0.0500	ND	mg/kg dry	
oluene	и	u	J <b>+</b>		0.0500	ND	11	
Ethylbenzene	и	11	10		0.0500		**	
[ylenes (total)	**	0	,,			ND	n	
urrogate: a,a,a-TFT (FID)				50.0-150	0.0500	ND		
	,,	,,	 ,,			65.8	%	
Surrogate: a,a,a-TFT (PID)	"	"	,,	50.0-150		91.1	"	
721-WIT-GTM-1 BASE			P61108	32-09			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96	-	4.38	ND	mg/kg dry	1
Benzene	и	II .	н		0.0500	1.68	"	-
oluene	II .	11	10		0.0500	ND	IJ	
thylbenzene		н	rr r		0.0500	ND	16	

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\*Refer to end of report for text of notes and definitions.

oward Holmes, Project Manager



ூOTHELL ■ (206) 481-9200 ■ FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

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Kleen Environmental Technologies, Inc.

1600 Dexter Ave. North, Suite E Seattle, WA 98109

Project: Okanogan Farm Restoration

Sampled: 10/28/96 to 10/31/96

Project Number: 6721

Received: 11/6/96

Project Manager: Darin C. Perollaz

Reported: 11/20/96 16:57

#### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A North Creek Analytical - Portland

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*
5721-WIT-GTM-1 BASE (continued)			P61108	82-09			<u>Soil</u>	
Xylenes (total)	1160315	11/12/96	11/13/96		0.0500	ND	mg/kg dry	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		71.7	%	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		100	"	
6721-WIT-GTM-2 NW COMP			P61108	32-10			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
3enzene	n	11	**		0.0500	ND	"	•
Toluene	n	11	D.		0.0500	ND	11	
Ethylbenzene	11	n	14		0.0500	ND	10	
Kylenes (total)	n	н	n		0.0500	ND	"	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150	2.0300	69.7	%	
rogate: a,a,a-TFT (PID)	n .	"	"	50.0-150		105	"	
				30.0 13.9		103		
5721-WIT-GTM-3 EAST BASE		L	P61108	32-11			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	ND	mg/kg dry	1
Benzene	"	10	"		0.0500	ND	"	•
Foluene	tt	н	n		0.0500	ND	n	
Ethylbenzene	и	11	п		0.0500	ND	11	
Xylenes (total)	"	"	н		0.0500	ND	11	
Surrogate: a,a.a-TFT (FID)	"	"	"	50.0-150		64.7	%	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		86.8	"	
				30.0 130		0,00		
5721-WIT-GRM-4 SAK			P61108	32-12			Soil	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/14/96	-	4.38	ND	mg/kg dry	1
Benzene	n .	11	и		0.0500	ИD	" " "	
Toluene	n	11	н		0.0500	ND	11	
Ethylbenzene	10	D	H		0.0500	ND	n	
Xylenes (total)	11	11	n		0.0500	ND	и	
Surrogate: a,a,a-TFT (FID)	"	"	"	50.0-150		71.8	%	
Surrogate: a,a,a-TFT (PID)	"	"	"	50.0-150		117	"	
						/		
6721-WIT-GTM-5 STOCK PILE			P61108	2-13			<u>Soil</u>	
Gasoline Range Hydrocarbons	1160315	11/12/96	11/13/96		4.38	7.62	mg/kg dry	1,2
3enzene	11	19	11		0.0500	ND	"	,
Γoluene	"	n .	IF		0.0500	ND	19	
Ethylbenzene	II .		11		0.0500	ND	li .	
Kylenes (total)	11	n	"		0.0500	ND	n	
errogate: a,a,a-TFT (FID)	"	"	"	50.0-150		68.0	%	

North Creek Analytical, Inc.

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Toward Holmes, Project Manager



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Okanogan Farm Restoration

Sampled: 10/28/96 to 10/31/96

Project Number: 6721

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attle, WA 98109

Project Manager: Darin C. Perollaz

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Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A North Creek Analytical - Portland

	Batch	Date	Date	Surrogate	Reporting			
Analyte	Number	Prepared	Analyzed	Limits	Limit	Result	Units	Notes*

121-WIT-GTM-5 STOCK PILE (continued) Surrogate: a,a,a-TFT (PID)

1160315

11/12/96 11/13/96

50.0-150

122

Soil %

orth Creek Analytical, Inc.

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oward Holmes, Project Manager

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Seattle, WA 98109

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Dry Weight Determination North Creek Analytical - Portland

! - <del>I</del>				
Sample Name	Lab ID	Matrix	Result	Units
6721-COX-GT1 BASE	P611082-01	Soil	93.0	%
6721-COX-GT2 NW COMP	P611082-02	Soil	94.5	%
6721-COX-GT3 SE COMP	P611082-03	Soil	94.6	%
6721-COX-GT4 STOCKPILE	P611082-04	Soil	92.6	%
6721-WIT-GTW-1 BASE	P611082-05	Soil	94.7	%
6721-WIT-GTW-W SE COMP	P611082-06	Soil	97.4	%
1-WIT-TGW-3 WEST	P611082-07	Soil	96.7	%
6721-WIT-GTW-4 STOCKPILE	P611082-08	Soil	97.2	% .
6721-WIT-GTM-1 BASE	P611082-09	Soil	96.8	%
6721-WIT-GTM-2 NW COMP	P611082-10	Soil	93.5	%
6721-WIT-GTM-3 EAST BASE	P611082-11	Soil	96.9	%
6721-WIT-GRM-4 SAK	P611082-12	Soil	95.5	%
6721-WIT-GTM-5 STOCK PILE	P611082-13	Soil	94.1	%

North Creek Analytical, Inc.

Howard Holmes, Project Manager

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Seattle, WA 98109

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Notes and Definitions

Note The reporting limit is raised. Detected hydrocarbons in the gasoline range appear to be due to overlap of diesel range hydrocarbons. Analyses are not controlled on RPD values from sample concentrations less than 5 times the reporting limit. DET

Analyte DETECTED

₹D Analyte NOT DETECTED at or above the reporting limit

NR. Not Reported

dry Sample results reported on a dry weight basis

\\c0v. Recovery

RPD Relative Percent Difference

North Creek Analytical, Inc.

Howard Holmes, Project Manager

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Page 9 of 9



BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

# WTPH-G/BTEX QUALITY CONTROL SUMMARY



Offices:

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## Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A/Quality Control North Creek Analytical - Portland

: 1	Date	Spike	Sample	QC	R	eporting Limit	Recov.	RPD	RPD	
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	%	Notes*
Satch: 1160315	Date Prepa	red: 11/12	/96		Extractio	n Method: EP	A 5030			
Blank	1160315-BI		170		<u> Lixu acuo</u>	in Method. E1	A 3030			
Gasoline Range Hydrocarbons	11/13/96	<u> </u>		ND	mg/kg dry	4.38				,
enzene	11, 13, 50			ND	mg kg di	0.0500				1
roluene	11			ND	II .	0.0500				
Ethylbenzene	п			ND	11	0.0500				
(ylenes (total)	If			ND		0.0500				
urrogate: a,a,a-TFT (FID)	"	2.50		1.77	"	50.0-150	70.8			
Surrogate: a,a,a-TFT (PID)	H .	2.50		2.68	"	50.0-150	107			
llank Spike	1160315-BS	51								
Benzene	11/12/96	0.500		0.458	mg/kg dry	69.0-138	91.6			
/ rene	u ·	0.500		0.485	, ,	53.0-151	97.0			
ylbenzene		0.500		0.450		61.0-141	90.0			
(ylenes (total)	o o	1.5Q		1.22	"	62.0-144	81.3			
Surrogate: a,a,a-TFT (PID)	n	2.50		2.22	"	50.0-150	88.8			
Hank Spike	1160315-BS	52								
Gasoline Range Hydrocarbons	11/13/96	31.3		30.4	mg/kg dry	50.0-150	97.1			
Blank Spike Dup	1160315-BS	SD1_								
ರ್ಲಿ enzene	11/12/96	0.500		0.501	mg/kg dry	69.0-138	100		8.77	
Toluene	11	0.500		0.481	II .	53.0-151	96.2		0.828	
thylbenzene	**	0.500		0.427	**	61.0-141	85.4		5.25	
(ylenes (total)	tr	1.50		1.04	"	62.0-144	69.3		15.9	
Surrogate: a,a,a-TFT (PID)	"	2.50		2.48	"	50.0-150	99.2			
Blank Spike Dup	1160315-BS	5D2								
Gasoline Range Hydrocarbons	11/13/96	31.3		31.9	mg/kg dry	50.0-150	102		4.92	
<u>)uplicate</u>	1160315-DU	J <u>P1</u> <u>P6</u>	11082-01							
lasoline Range Hydrocarbons	11/12/96		ND	ND	mg/kg dry			50.0		3
Surrogate: a,a,a-TFT (FID)	"	2.69		1.92	"	50.0-150	71.4			
Currogate: a,a,a-TFT (PID)	"	2.69		2.80	"	50.0-150	104			
<u>Duplicate</u>	1160315-DU	<u>JP2</u> <u>P6</u>	11082-07							
Gasoline Range Hydrocarbons	11/12/96		ND	ND	mg/kg dry			50.0		3
urrogate: a,a,a-TFT (FID)	"	2.59		1.67	"	50.0-150	64.5			
"ogate: a,a,a-TFT (PID)	"	2.59		2.42	"	50.0-150	93.4			
<u> </u>										

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loward Holmes, Project Manager



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### Gasoline Hydrocarbons (Toluene to Dodecane) and BTEX per WTPH-G and EPA 8020A/Quality Control North Creek Analytical - Portland

Analyte	Date Analyzed	Spike Level	Sample Result	QC Result	R Units	eporting Limit Recov. Limits	Recov.	RPD Limit	RPD % Notes*
Matrix Spike	1160315-M	S1 Pe	611082-02						
Benzene	11/12/96	0.529	ND	0.520	mg/kg dry	56.0-123	98.3		
Toluene	n	0.529	ND	0.561	11	54.0-123	106		
Ethylbenzene	II.	0.529	ND	0.538		45.0-130	102		
Xylenes (total)	11	1.59	ND	1.47	u	50.0-127	92.5		
Surrogate: a,a,a-TFT (PID)	"	2.65		2.93	"	50.0-150	111		

North Creek Analytical, Inc.

\*Refer to end of report for text of notes and definitions.

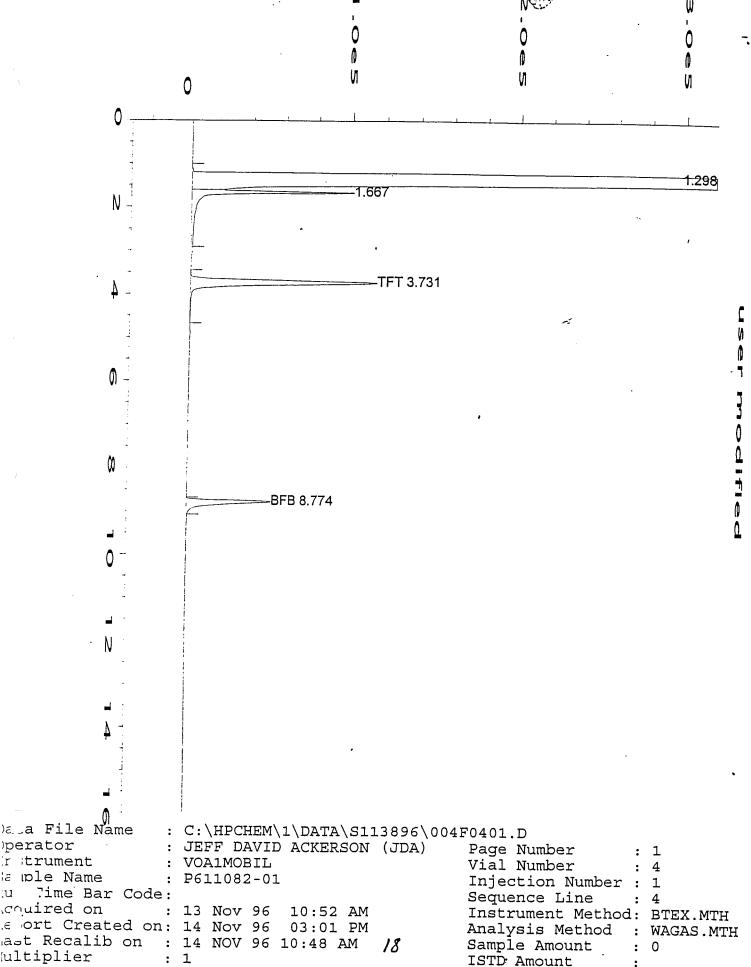
16



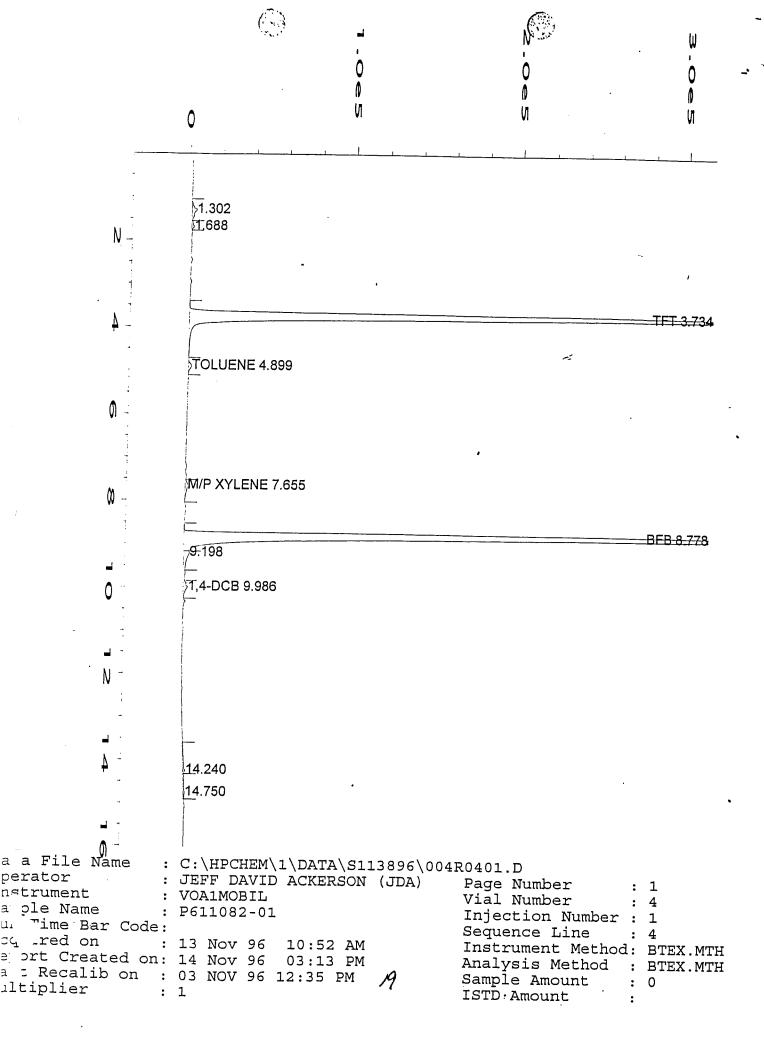
BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

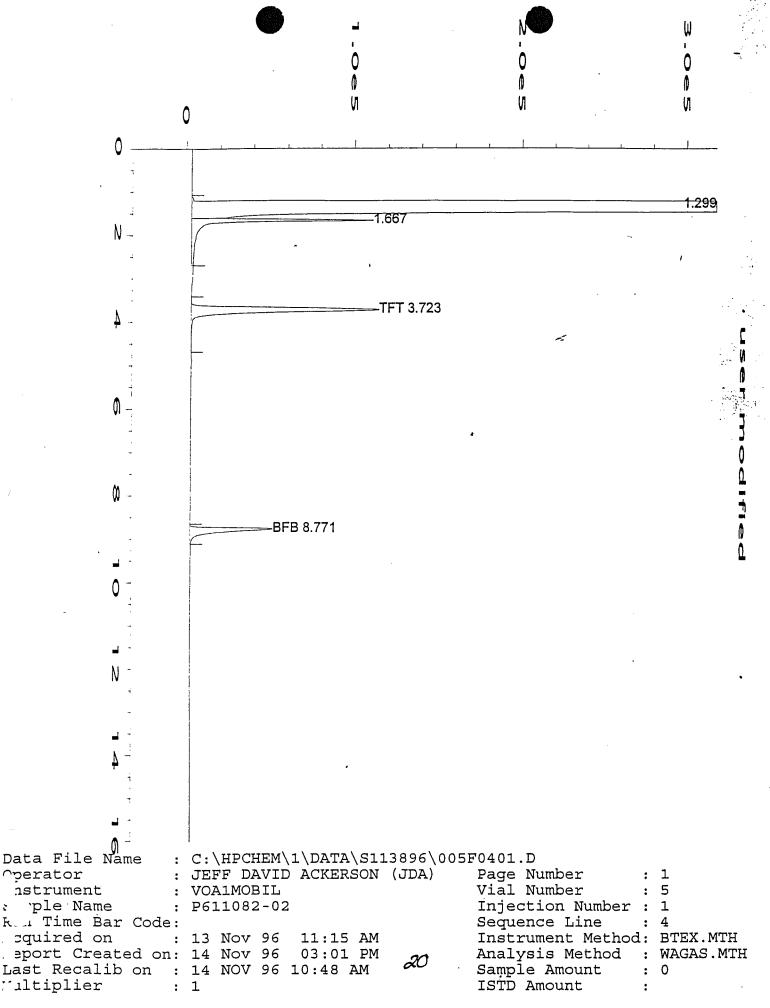
# WTPH-G/BTEX

# SAMPLE CHROMATGRAMS



perator

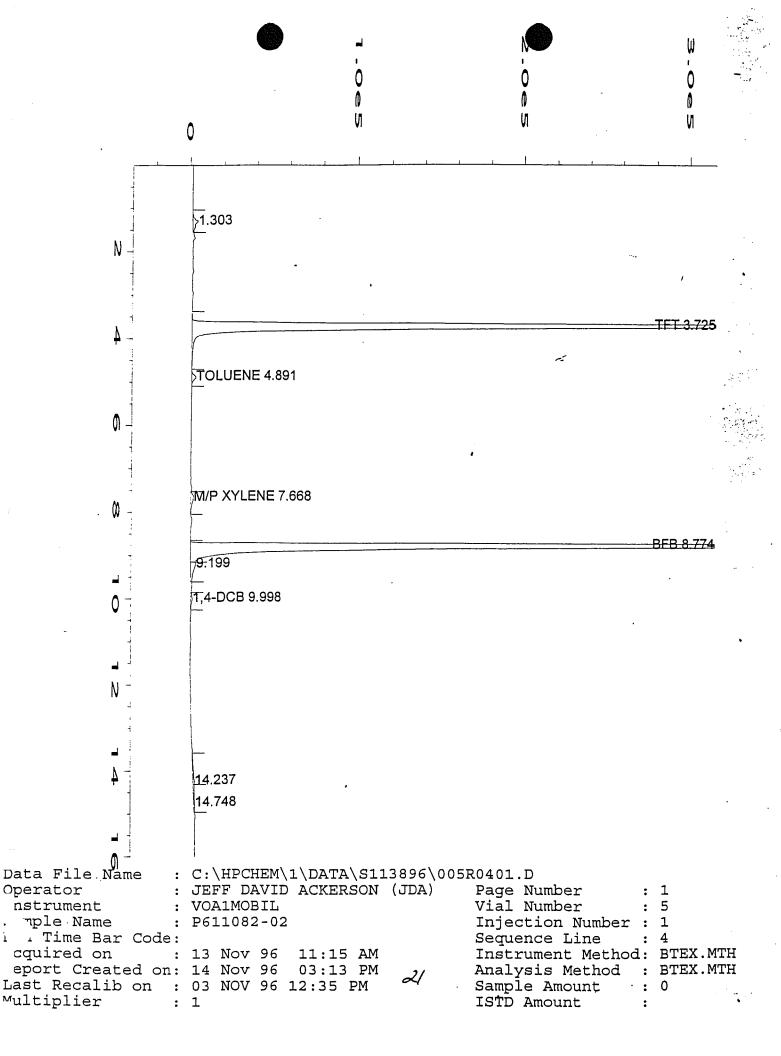


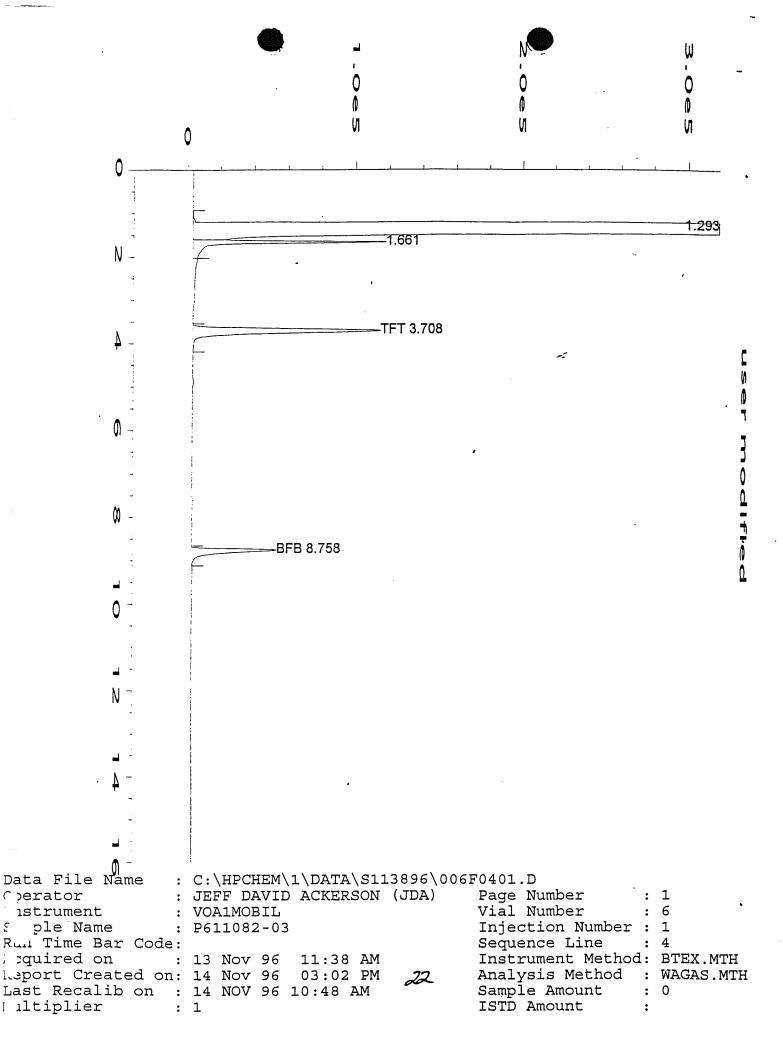


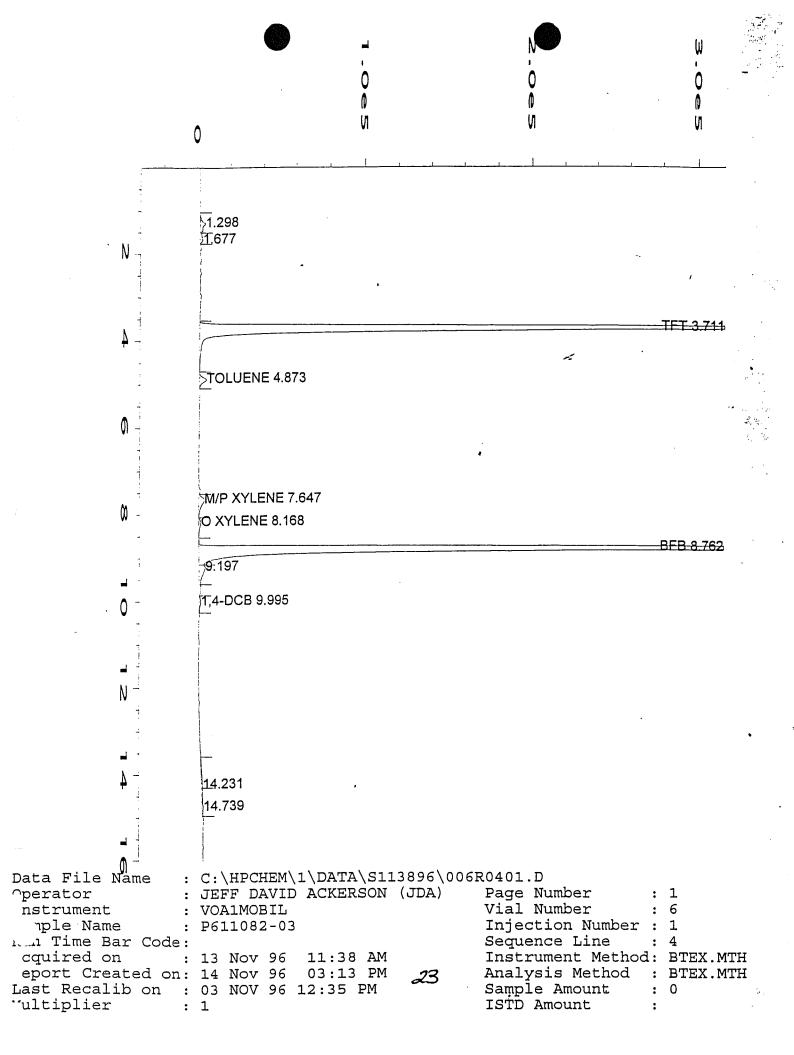
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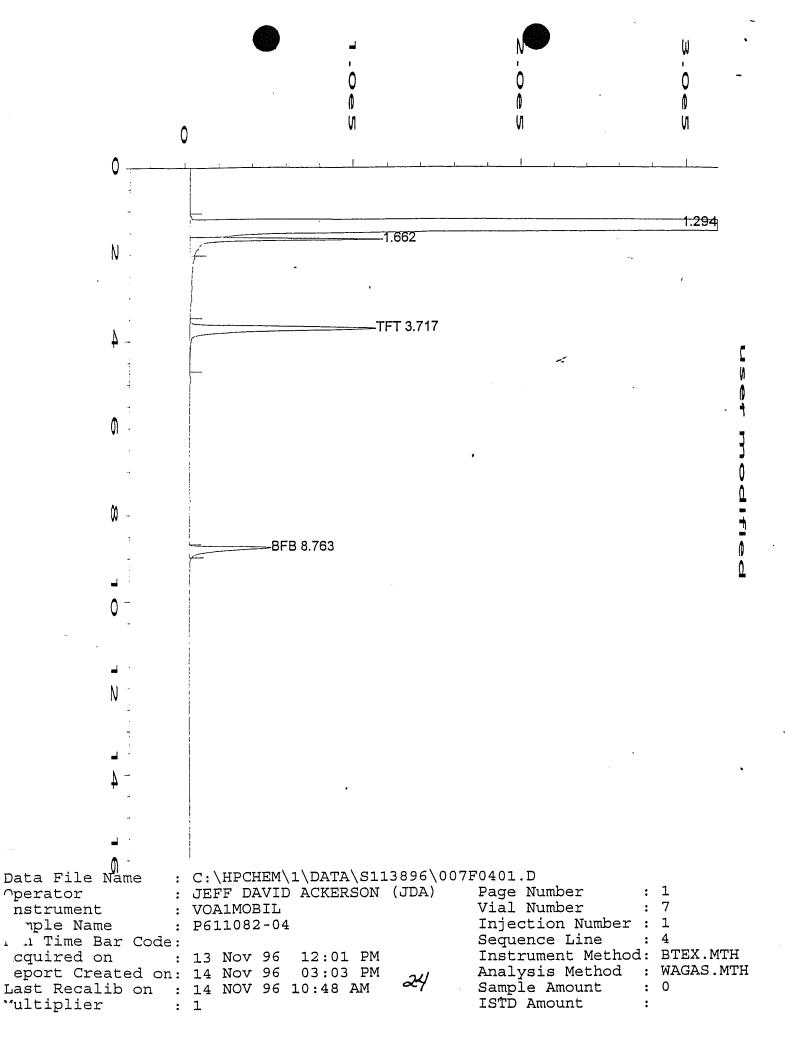
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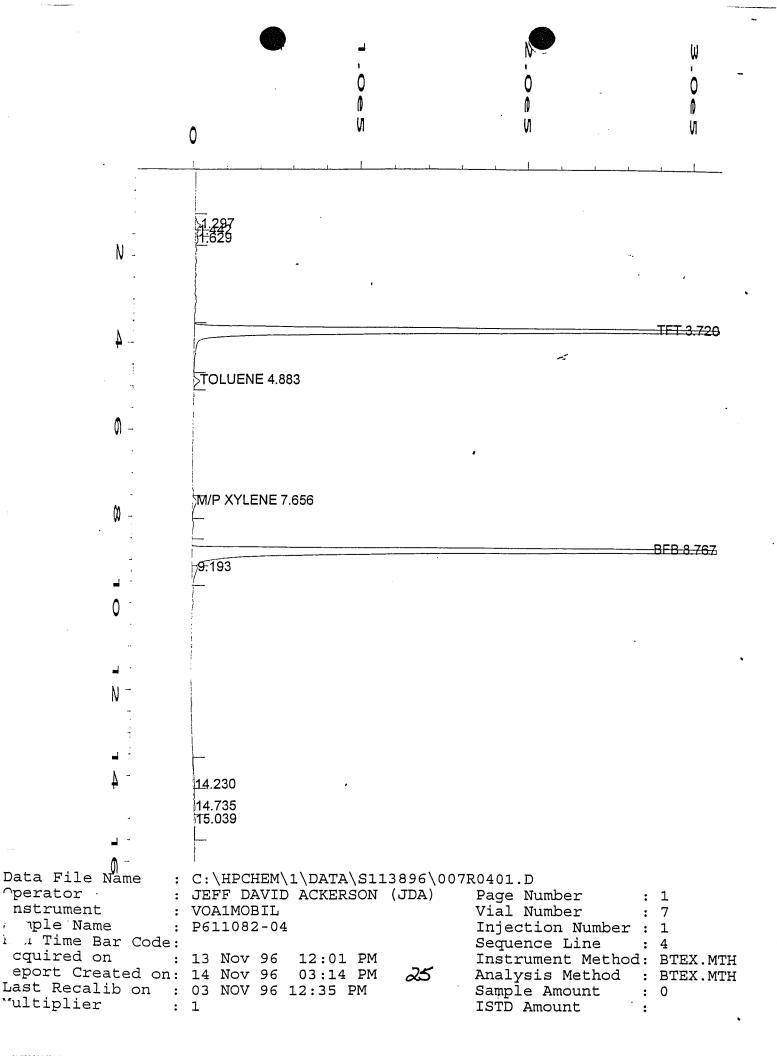
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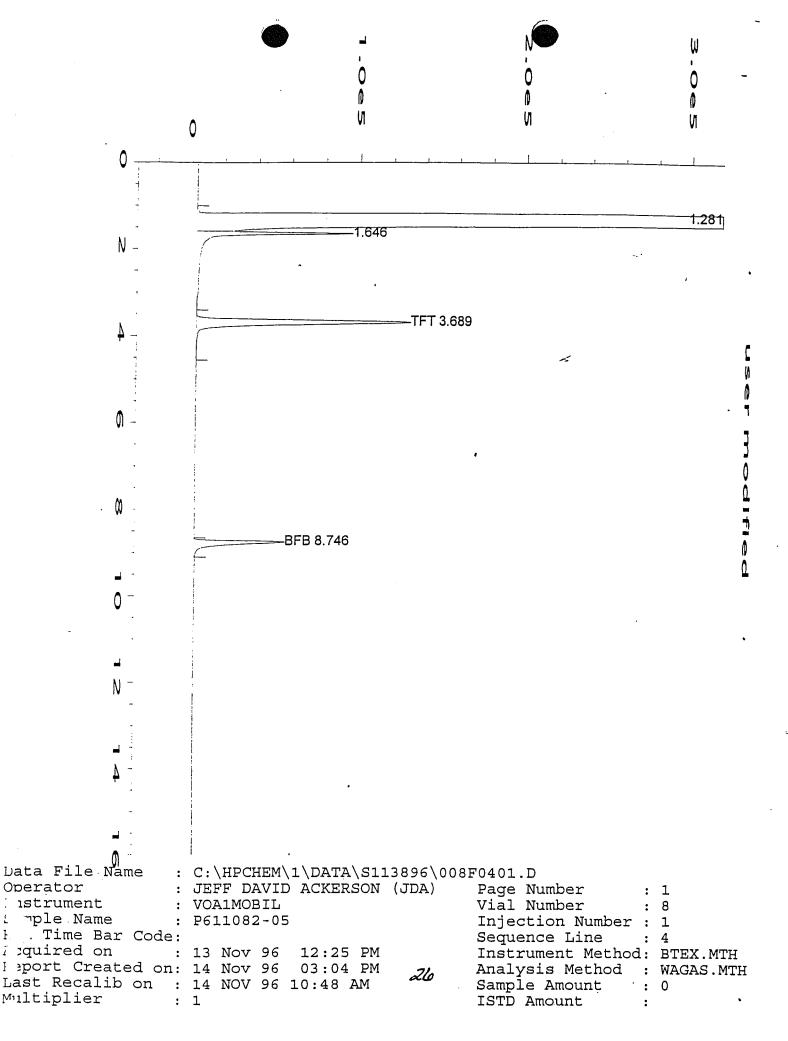


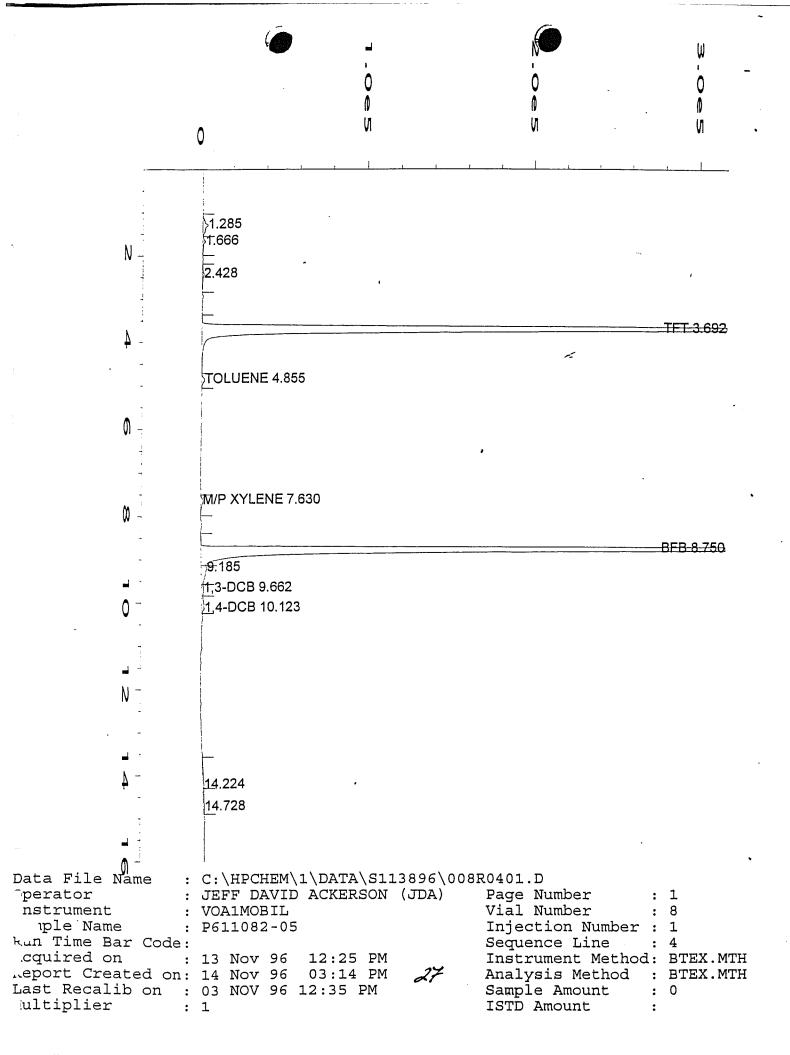






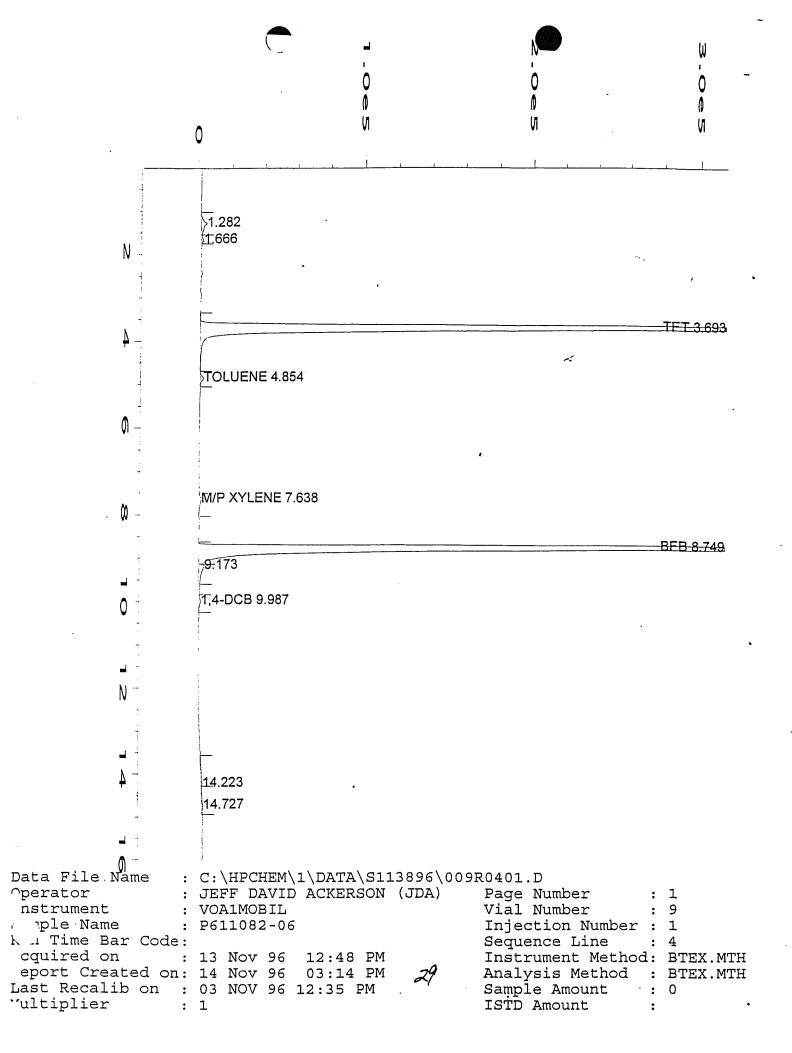


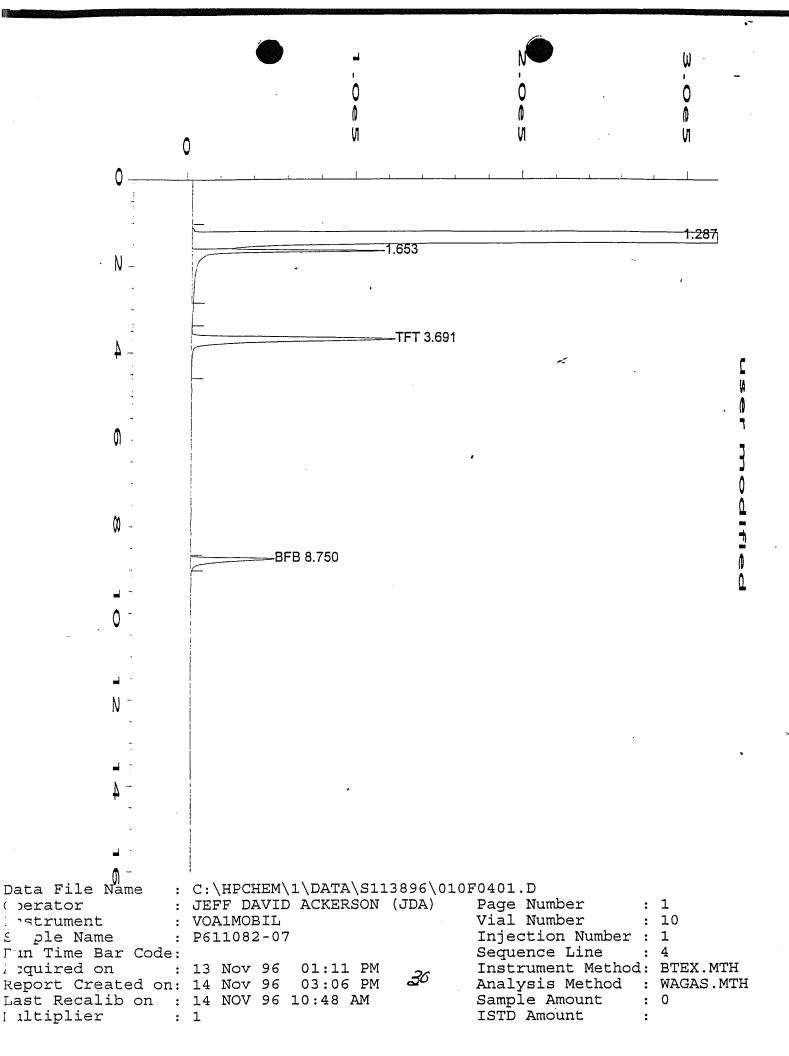


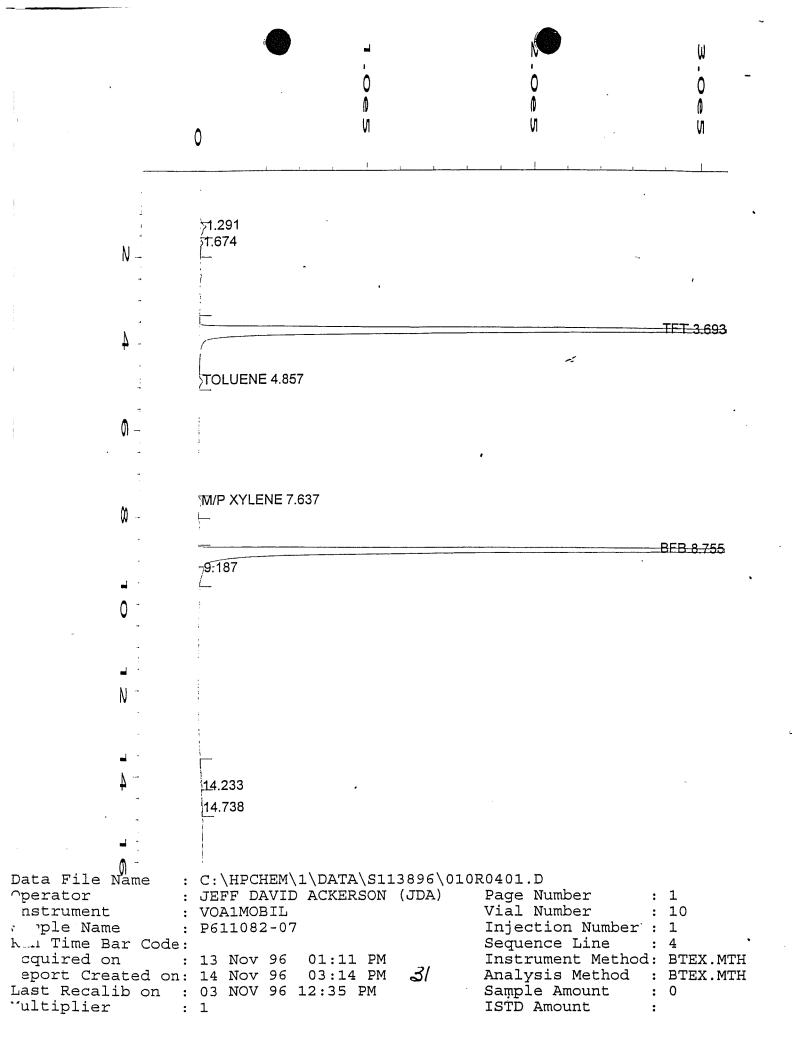


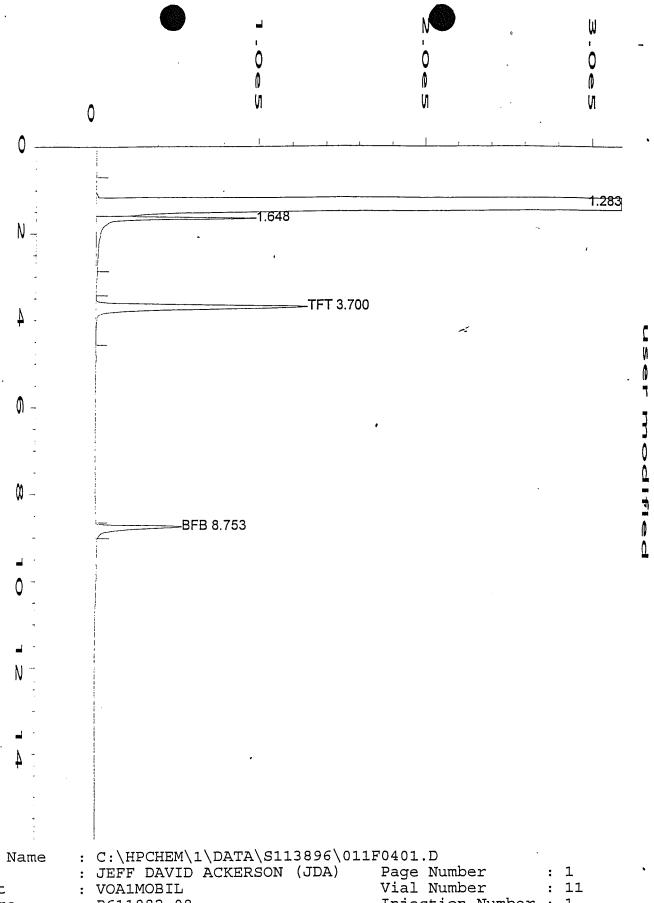
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                                                    Instrument Method: BTEX.MTH
                                12:48 PM
                  : 13 Nov 96
1 :port Created on: 14 Nov 96
                                                    Analysis Method
                                                                      : WAGAS.MTH
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Operator

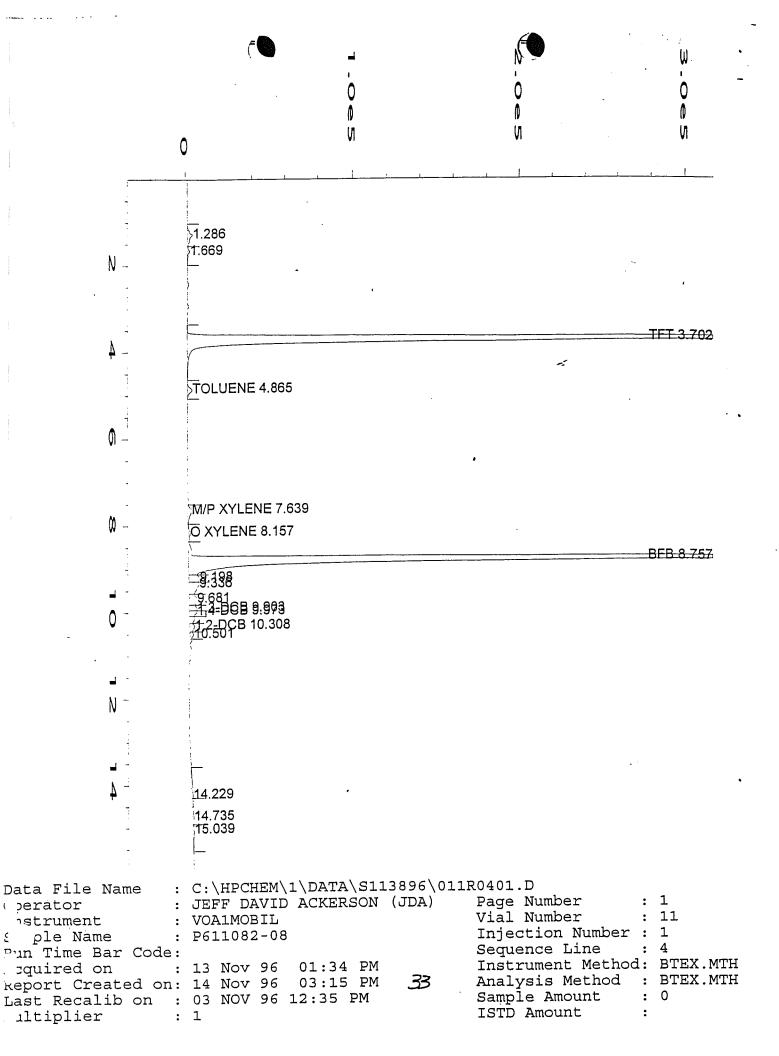


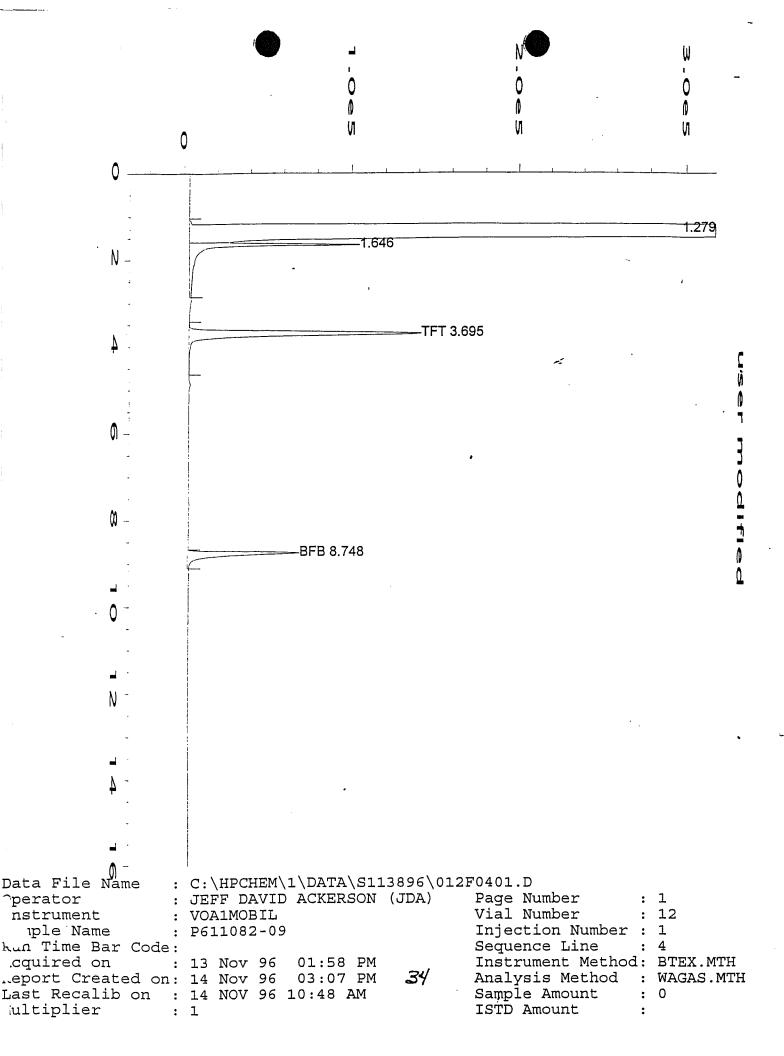




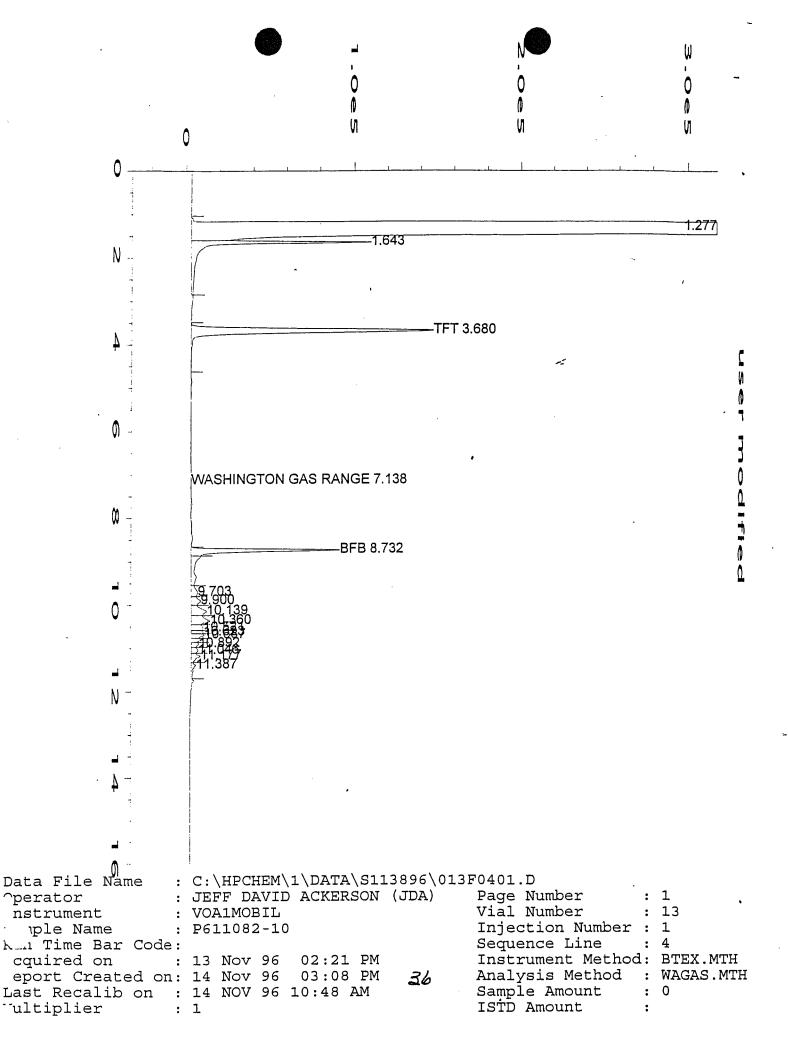


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0
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                     M/P XYLENE 7.629
                     O XYLENE 8.156
                     9.186
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                     14.225
                     14.731
Data File Name
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instrument
                   : VOA1MOBIL
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                   : P611082-09
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                   : 13 Nov 96
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                                                                       : BTEX.MTH
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Last Recalib on : 03 NOV 96 12:35 PM
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Multiplier
                   : 1
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                                                                              TFT 3 683
                       TOLUENE 4.842
             0
                       O XYLENE 8.126
                       8.464
                                                                              BFB 8 735
                        9.16829
                         9.701

21,3-DCB 9.905

10.141

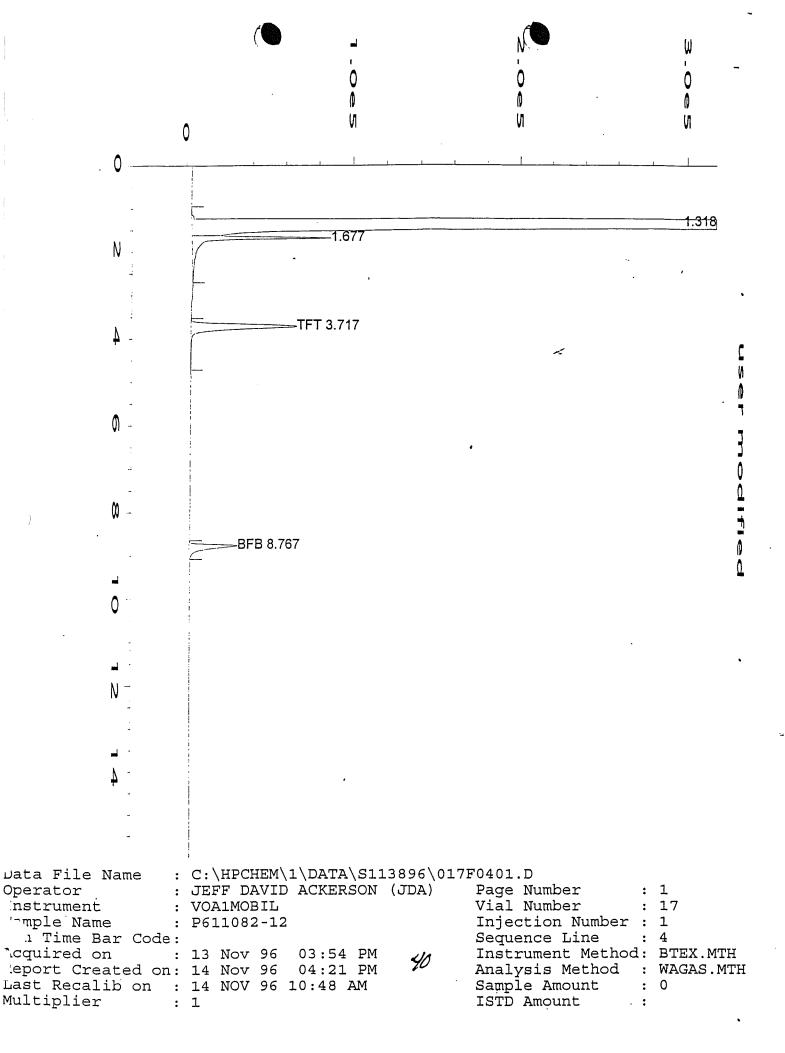
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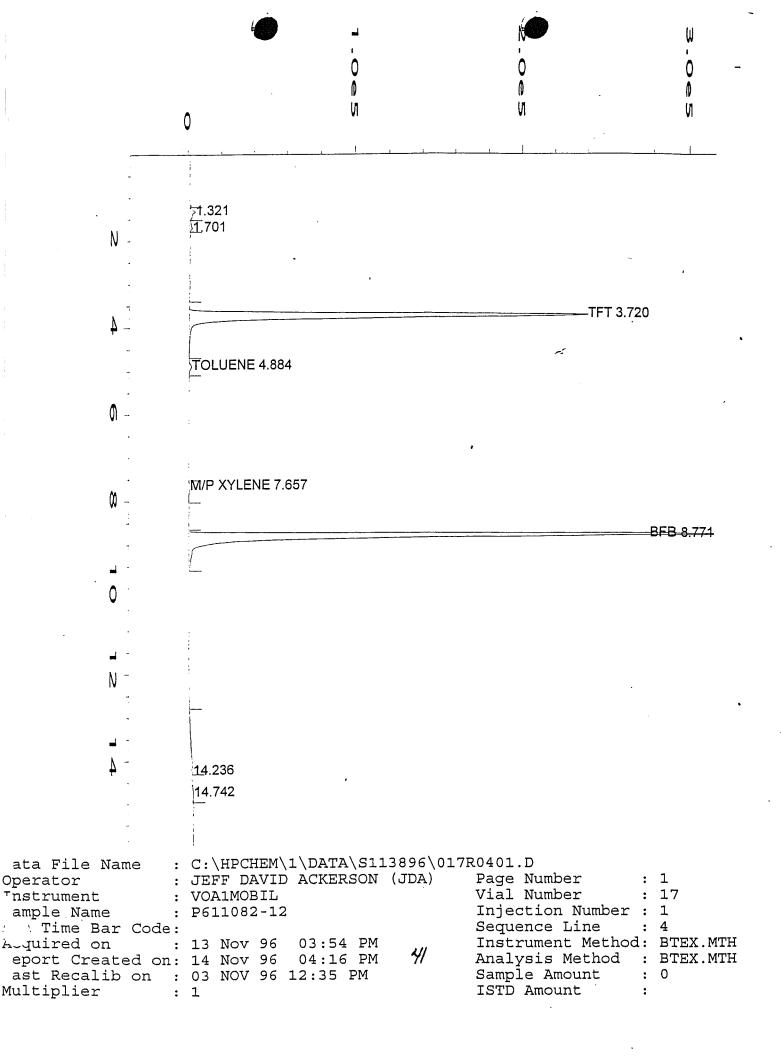
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                      14.223
                      14.729
                       15.028
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 rstrument
                    : VOA1MOBIL
                                                         Injection Number :
   ple Name
                    : P611082-10
                                                         Sequence Line
Tun Time Bar Code:
                                                         Instrument Method: BTEX.MTH
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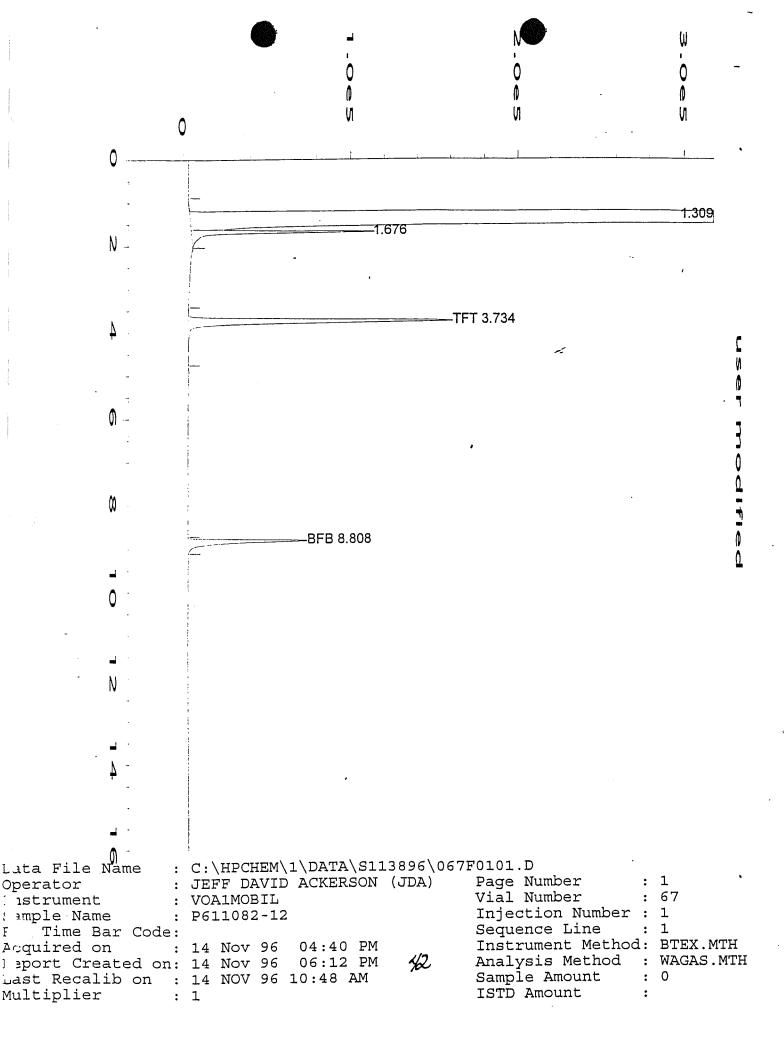
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                                                    Injection Number: 1
                   : P611082-11
                                                    Sequence Line
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1 :quired on
                  : 13 Nov 96
                                                    Instrument Method: BTEX.MTH
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                                                    Analysis Method : WAGAS.MTH
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        51.279
        1.612
         STOLUENE 4.841
         M/P XYLENE 7.613
         O XYLENE 8.141
                                                            BFB 8.743
        9:171
        H-3-DCB 9.628
         14.223
         14.730
         15.032
∬
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       : C:\HPCHEM\1\DATA\S113896\016R0401.D
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                                                           : 16
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       : VOA1MOBIL
                                         Injection Number: 1
       : P611082-11
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ar Code:
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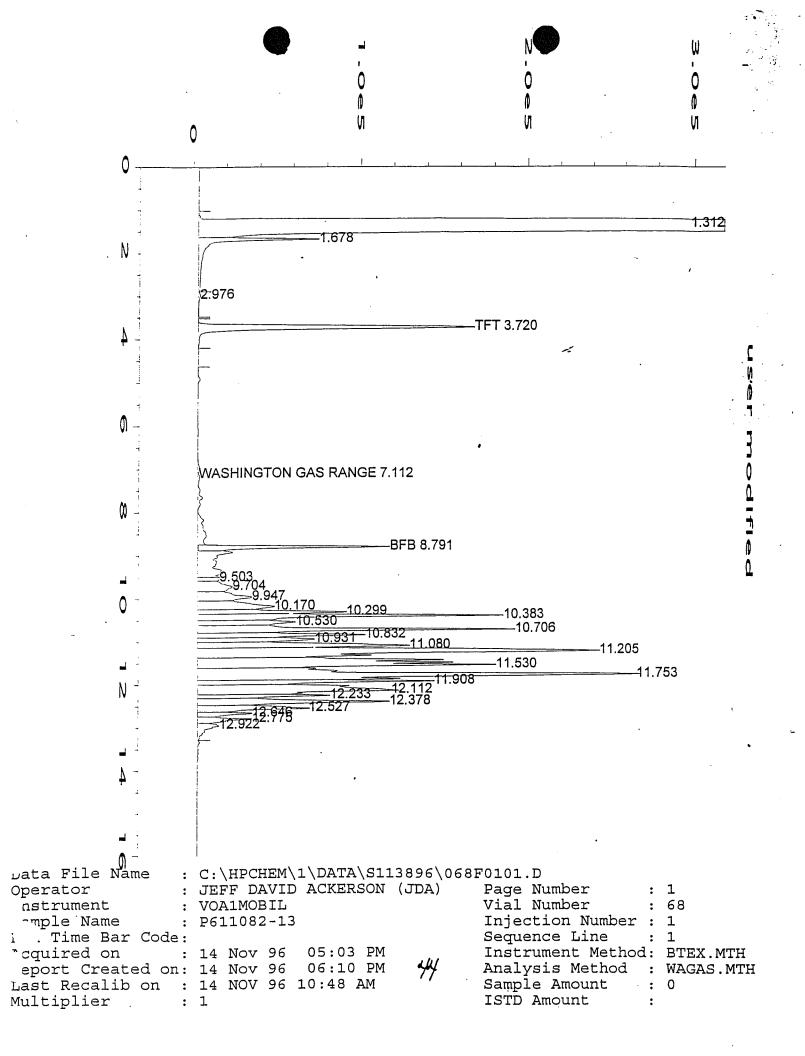


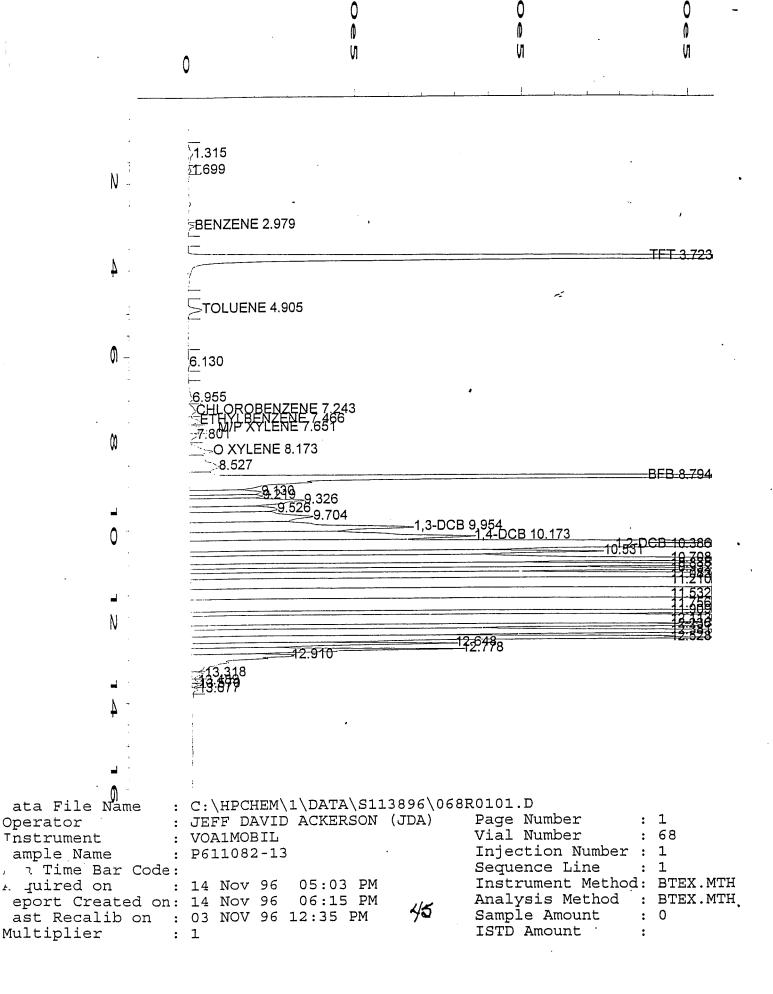




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                     1.696
            N
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                     TOLUENE 4.925
                     M/P XYLENE 7.691
                     O XYLENE 8.220
                                                                          BFB 8 812
                     9:241
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                     13.477
                      14.272
                     14.758
                      15.095
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                   : JEFF DAVID ACKERSON (JDA)
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                                                      Analysis Method : BTEX.MTH
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                                                      Sample Amount
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Multiplier
                                                      ISTD Amount
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Operator

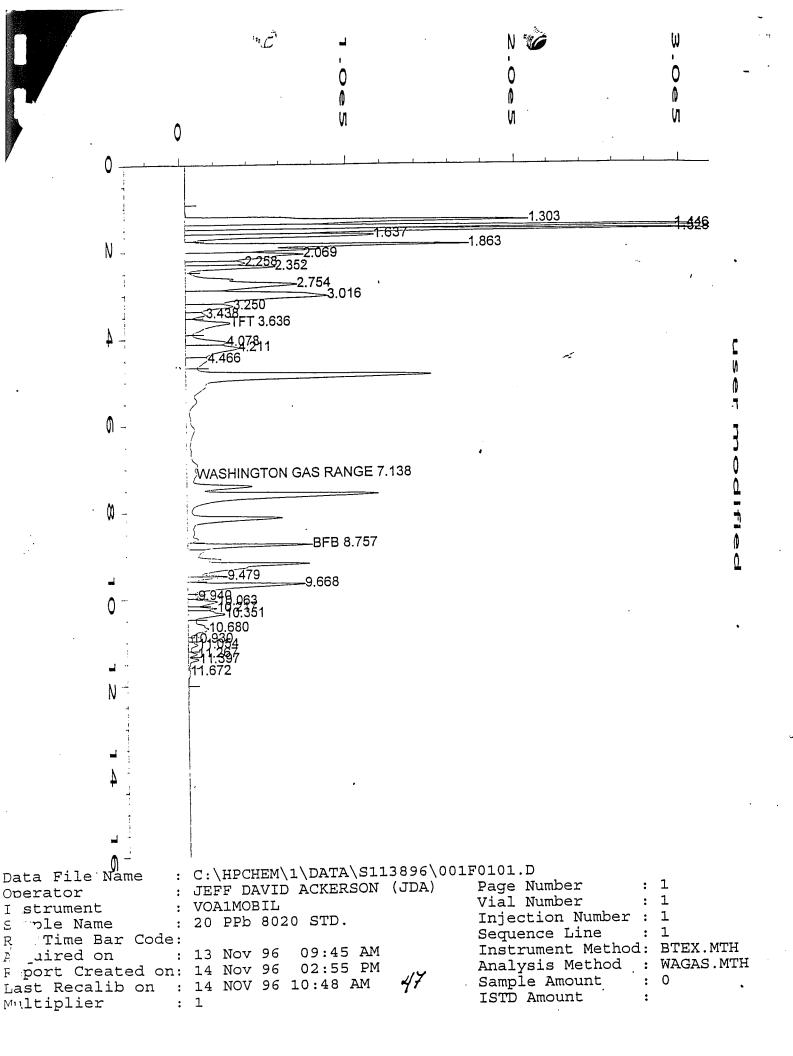


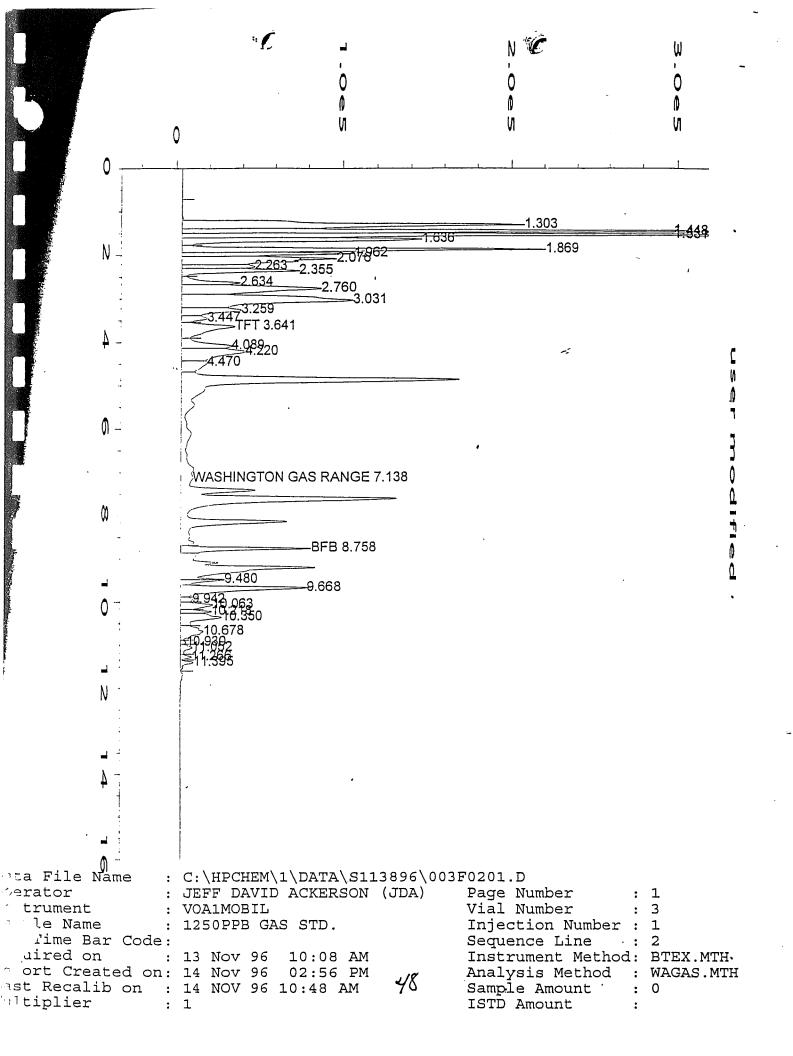


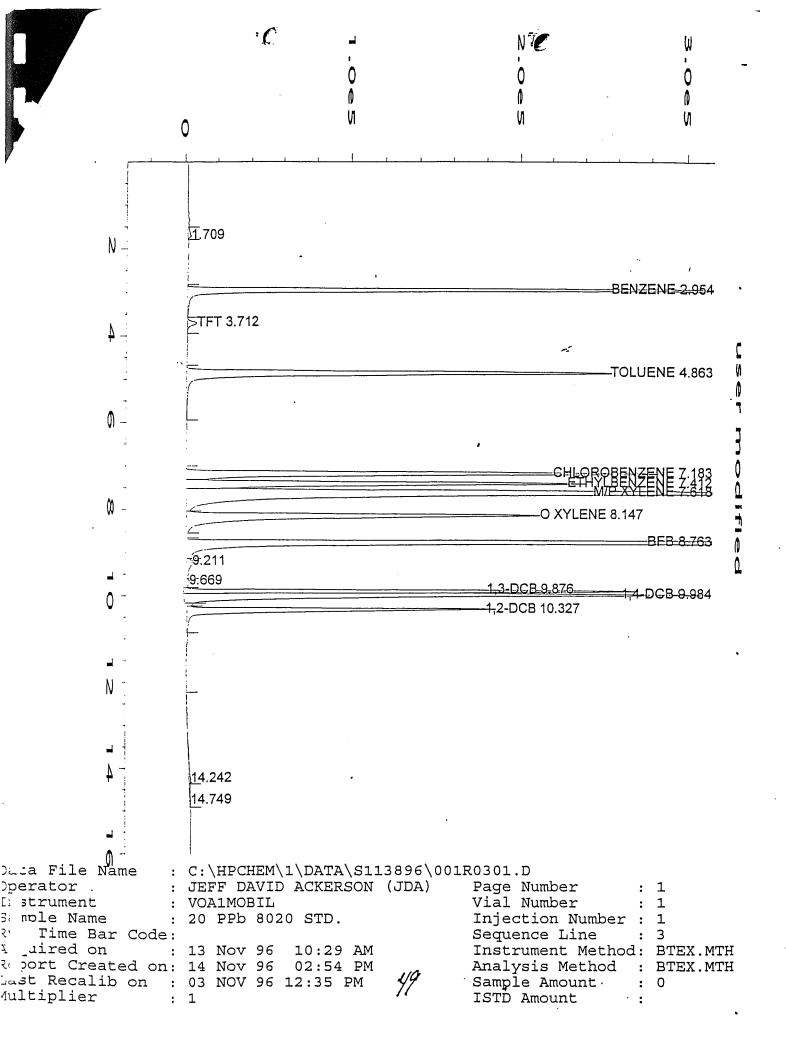


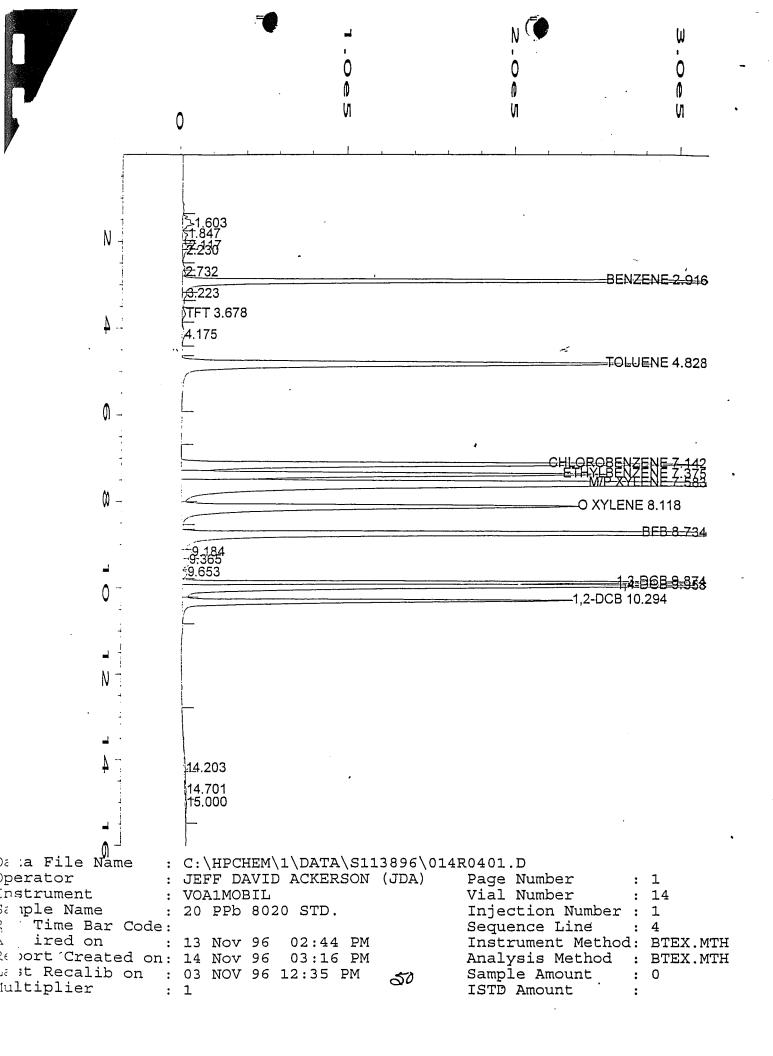
BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

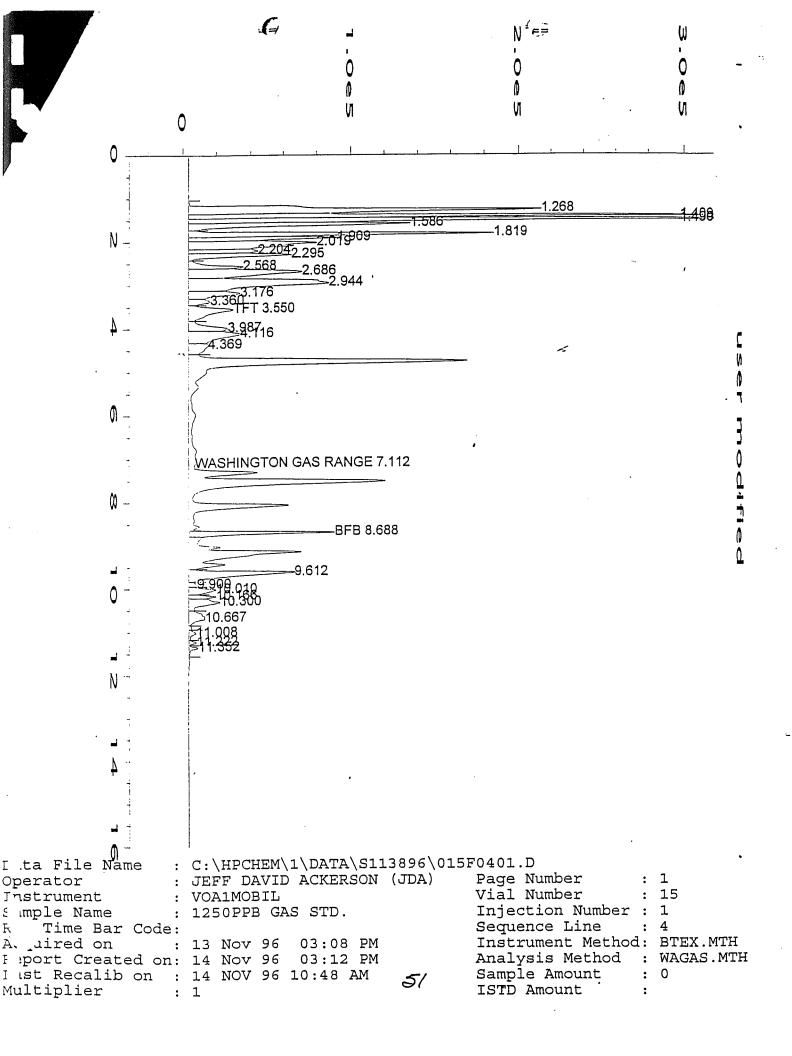
## WTPH-G/BTEX QUALITY CONTROL CHROMATOGRAMS













BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

# Pb Total ICP 6010A SAMPLE DATA SUMMARY



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Cleen Environmental Technologies, Inc.

Project: Okanogan Farm Restoration

Sampled: 10/28/96 to 10/31/96

1600 Dexter Ave. North, Suite E Seattle, WA 98109 Project Number: 6721
Project Manager: Darin C. Perollaz

Received: 11/6/96 Reported: 2/17/97 17:25

NILITATION OF THE PROPERTY OF CO.

#### ANALYTICAL REPORT FOR SAMPLES:

Sample Description	Laboratory Sample Number	Sample Matrix	Date Sampled
6721-COX-GT1 BASE	P611082-01	Soil	10/28/96
5721-COX-GT2 NW COMP	P611082-02	Soil	10/28/96
1721-COX-GT3 SE COMP	P611082-03	Soil	10/28/96
6721-COX-GT4 STOCKPILE	P611082-04	Soil	10/28/96
i721-WIT-GTW-1 BASE	P611082-05	Soil	10/30/96
6721-WIT-GTW-W SE COMP	P611082-06	Soil	10/30/96
721-WIT-TGW-3 WEST	P611082-07	Soil	10/30/96
I-WIT-GTW-4 STOCKPILE	P611082-08	Soil	10/30/96
6721-WIT-GTM-1 BASE	P611082-09	Soil	10/31/96
721-WIT-GTM-2 NW COMP	P611082-10	Soil	10/31/96
6721-WIT-GTM-3 EAST BASE	P611082-11	Soil	10/31/96
i721-WIT-GRM-4 SAK	P611082-12	Soil	10/31/96
6721-WIT-GTM-5 STOCK PILE	P611082-13	Soil	10/31/96

north Creek Analytical, Inc.

The results in this report apply to the samples analyzed in accordance with the chain of custody document.

This analytical report must be reproduced in its entirety.

July Nevenbers/for 18939

18939 120th Avenue N.E., Suite 101, Bothell, WA 98011-9508 East 11115 Montgomery, Suite B. Spokane, WA 99206-4776 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE • (509) 924-9200 • FAX 924-9290

PORTLAND **(503)** 643-9200 **FAX** 644-2202

Kleen Environmental Technologies, Inc. 1600 Dexter Ave. North, Suite E Seattle, WA 98109

Project: Okanogan Farm Restoration

Sampled: 10/28/96 to 10/31/96

Project Number: 6721 Project Manager: Darin C. Perollaz

Received: 11/6/96 Reported: 2/17/97 17:25

#### Total Metals per EPA 6000/7000 Series Methods North Creek Analytical - Portland

I.A Junta	Batch	Date	Date	Specific	Reporting			
Analyte	Number	Prepared	Analyzed	Method	Limit	Result	Units	Notes*
6721-COX-GT1 BASE			P61108	<u>82-01</u>			Soil	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	ND	mg/kg dry	
6721-COX-GT2 NW COMP			P61108	82-02			Soil	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	ND	mg/kg dry	
6721-COX-GT3 SE COMP			P61108				<u>Soil</u>	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	10.7	mg/kg dry	
6721-COX-GT4 STOCKPILE			P61108				<u>Soil</u>	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	ND	mg/kg dry	
721-WIT-GTW-1 BASE		444406	P61108				Soil	
ıd J	1160192	11/13/96	11/14/96	EPA 6010A	10.0	131	mg/kg dry	
6721-WIT-GTW-W SE COMP			P61108				<u>Soil</u>	•
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	51.3	mg/kg dry	
6721-WIT-TGW-3 WEST	1160100	11/12/06	P61108				Soil	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	89.5	mg/kg dry	
6721-WIT-GTW-4 STOCKPILE	1160100	11/10/06	P61108				Soil	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	75.4	mg/kg dry	
6721-WIT-GTM-1 BASE	1160102	11/12/06	P61108		10.0	a= a	Soil	
Lead	1160192	11/13/96	11/14/96	EPA 6010A	10.0	27.3	mg/kg dry	5 <b>.</b>
6721-WIT-GTM-2 NW COMP Lead	1160192	11/13/96	<u>P61108</u> 11/14/96		10.0	22.5	<u>Soil</u>	
Leau	1100192	11/13/90	11/14/90	EPA 0010A	10.0	33.7	mg/kg dry	
6721-WIT-GTM-3 EAST BASE Lead	1160192	11/13/96	<u>P61108</u> 11/14/96	2 <u>-11</u> EPA 6010A	10.0	NID	Soil	
	1100192	11/13/30	11/14/70	LIA OUTUA	10.0	ND	mg/kg dry	
6721-WIT-GRM-4 SAK Lead	1160192	11/13/96	P61108	2-12 EPA 6010A	10.0	13.9	Soil	
	1100172	41/13/30	11/14/70	LIA UVIVA	10.0	13.7	mg/kg dry	
6721-WIT-GTM-5 STOCK PILE Lead	1160192	11/12/06	P61108		10.0	20.2	<u>Soil</u>	
Leau	1100194	11/13/96	11/14/96	EPA 6010A	10.0	20.2	mg/kg dry	

North Creek Analytical, Inc.

\*Refer to end of report for text of notes and definitions.





BOTHELL ■ (206) 481-9200 ■ FAX 485-2992 SPOKANE ■ (509) 924-9200 ■ FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Kleen Environmental Technologies, Inc.

1600 Dexter Ave. North, Suite E

Seattle, WA 98109

Project: Okanogan Farm Restoration

Project Number: 6721

Project Manager: Darin C. Perollaz

Sampled: 10/28/96 to 10/31/96

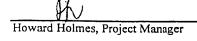
Received: 11/6/96

Reported: 2/17/97 17:25

#### Dry Weight Determination North Creek Analytical - Portland

Sample Name	Lab ID	Matrix	Result	Units
6721-COX-GT1 BASE	P611082-01	Soil	93.0	%
6721-COX-GT2 NW COMP	P611082-02	Soil	94.5	%
6721-COX-GT3 SE COMP	P611082-03	Soil	94.6	%
6721-COX-GT4 STOCKPILE	P611082-04	Soil	92.6	%
6721-WIT-GTW-1 BASE	P611082-05	Soil	94.7	%
6721-WIT-GTW-W SE COMP	P611082-06	Soil	97.4	%
6721-WIT-TGW-3 WEST	P611082-07	Soil	96.7	%
6721-WIT-GTW-4 STOCKPILE	P611082-08	Soil	97.2	% .
6721-WIT-GTM-1 BASE	P611082-09	Soil	96.8	%
6721-WIT-GTM-2 NW COMP	P611082-10	Soil	93.5	%
6721-WIT-GTM-3 EAST BASE	P611082-11	Soil	96.9	%
6721-WIT-GRM-4 SAK	P611082-12	Soil	95.5	%
6721-WIT-GTM-5 STOCK PILE	P611082-13	Soil	94.1	%

North Creek Analytical, Inc.





BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE (509) 924-9200 FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

Kleen Environmental Technologies, Inc.

1600 Dexter Ave. North, Suite E

Seattle, WA 98109

Project: Okanogan Farm Restoration

Project Number: 6721

Project Manager: Darin C. Perollaz

Sampled: 10/28/96 to 10/31/96

Received: 11/6/96

Reported: 2/17/97 17:25

#### Notes and Definitions

#	Note
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
Recov.	Recovery
RPD	Relative Percent Difference

North Creek Analytical, Inc.

Howard Holmes, Project Manager



BOTHELL = (425) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290 PORTLAND = (503) 643-9200 = FAX 644-2202

## Pb Total ICP 6010A QUALITY CONTROL SUMMARY



BOTHELL = (206) 481-9200 = FAX 485-2992 SPOKANE = (509) 924-9200 = FAX 924-9290

PORTLAND = (503) 643-9200 = FAX 644-2202

Kleen Environmental Technologies, Inc.

Project: Okanogan Farm Restoration

Total Metals per EPA 6000/7000 Series Methods/Quality Control

Sampled: 10/28/96 to 10/31/96

1600 Dexter Ave. North, Suite E

Project Number: 6721

Received: 11/6/96

Seattle, WA 98109

Project Manager: Darin C. Perollaz

Reported: 2/17/97 17:25

	Date	Spike	Sample	QC	]	Reporting Limit	Recov.	RPD	RPD
Analyte	Analyzed	Level	Result	Result	Units	Recov. Limits	%	Limit	% Notes*
Batch: 1160192	Date Prepa		<u>3/96</u>		Extract	ion Method: EP.	A 3050		
<u>Blank</u> Lead	<u>1160192-BI</u> 11/14/96	<u>LK1</u>		ND	mg/kg d	ry 10.0			
<u>LCS</u> Lead	<u>1160192-BS</u> 11/14/96	100		89.5	mg/kg d	ry 76.0-105	89.5		
<u>Duplicate</u> Lead	<u>1160192-DI</u> 11/14/96	<u>JP1 P</u>	611127-03 12.8	11.5	mg/kg d	ry		40.0	10.7
<u>Matrix Spike</u> Lead	<u>1160192-M</u> 11/14/96	<u>S1</u> <u>P</u>	611127-03 12.8	96.6	mg/kg d	ry 75.0-125	82.2		

## Appendix D

Draft Field Notes

10/30/96 USACE whitedoor Form site 12 My moster Road y Tangsket , WA orchard Access Road | Sylveder Road 2 Highway 2 ogo + Mobilized Backhae from Tanasket , Met up with Mike Bracke har lay castillo at Hachine shop @ 0230 Health and safety Briefing to over Activities

Apresons present persons presat with the Holland builted and of the land the Person lepresating Darin C. Perrollaz Klean Environmatal Hike Broofer - - Klam Environmentel 1 Regiment Costiller of the Khan Environt Jac Harsh 10 and 1003 Army Corps 1 year 1 and 1 and 1 years of the same of 1000 - Reviewed hope for tank activities @ wind techne site Invantoried Tank located under firet sheal - empty Initiated excavation activities en wind madine have for the time I have the state of the same of the Note: Bid document indicated funk was dissel uso wind madine angine is of asolve 1030 Tark partially incovered a south side person in Trank is crimbol foot to vest conversed with Ray about pulling fork . Some conflict re: quantity of product. work plm / specs molicate 2'9" product Tank is 500 galla and rearly ful to capacity. The pumps located on site are non-functional frowned new purp from Tonskef Fred Supply

130 - Par bogon frans Cerring find product to 17E drus /UNIA).

- B - Inventory of Hazardans materials in machine shop conformed w/ fay and began bading appliances of stored and stored began bading appliances of the Machine stop. Pelocated began colocid supty confirms scattered throughout the celin lefrire areas with i agreed to take possible purped ofram Rosmand acquesting of lan

sample 4 - Grab fran stockpile 1700 - Tank staged and accessed. Area secured with anotruction tope and quailable barriandes.

10/31/96 Transported truck of appliances, Debris and Frel Stad famous to Ellisterd transfer station. Appliances skypol with Recyloble items. Led panels were instructed to go as frank. Mobilized to Madrice stop dres Hike & Ray will Take House for girch briefing on 5te toks is Harth und safety meating. Tarked Kike and Pay with getting tank out of the grand DP - Buboged involved device items in machine the according " to horard drancfaristics Tampararily (abded and a legal for prefiting of disposal UST Yadina shap out of ground and staged. Tank was oriated North to sath and was positioned well away from Con- to Structure as spaces indicated that fink uses located under part of Blog & loga - to. conducted Sampling with Tee House

7.71 Sample Indulifier 42" in death in depth 32" in depte 41" in doth Skelgsile

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	Area returned to pre-existing grade.
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	m Berphelex Adleshe Salant	PB 1 tobe	17be
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	- uglda AVK Camart	MC196-	ist
	- ait Fillers	- MC 14t.	2x18t.
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## Aerosel Drim

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- dring Alminu Sprey pent	L + 1202.	(

### Appendix E

Hazardous Waste Management Documentation
Uniform Hazardous Waste Manifests
Land Disposal Restriction Notification
Lab-Pack Drum Inventory/Shipping List
Certificate of Destruction/Disposal

### **Uniform Hazardous Waste Manifest**



STATE OF ARKANSAS

Department of Pollution Control and Ecology
P. O. Box 8913 Little Rock, Arkansas 72219-8913
Telephone 501-562-7444

Form Approved, OMB No. 2050-0039, EXPIRES 9-30-96

4

Please print or type. (Form designed for use on elite (12-pitch) typewriter.) UNIFORM HAZARDOUS information in the shaded areas is not WASTE MANIFEST A State Manifest Document Number 3. Generator's Name and Mailing Address USDA FSA Whiteaker Farm c/o US Army Corps of Engineers Seattle District, P.O. Box 3755, Seattle, WA 98124-2255 B. State Generator's ID CHA MIDIA <del>764-4478</del> 5. Transporter 1 Company Name C. State Transporter's ID Environmental Transportation D. Transporter's Phone 7. Transporter 2 Company Name E. State Transporter's ID F. Transporter's Phone 9. Designated Facility Name and Site Address G. State Facility's ID ·神景学·新疆 Enso, Inc. 309 American Circle H. Facility's Phone El Dorado, AR 71730 Unit 11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) ....I. Waste No. Quantity Wt/Vol Туре (RQ) Waste Flammable Liquids, Toxic, N.O.S. (Acetone, Petroleum Distillates) D005 3, UN1992, PG II (D001) Waste Aerosols, Flammable (each not exceeding D001 D026 1 liter capacity) D036 UN1950 0 0 1 1 0 1 0 1 0 1 0 1 2 1 5 J. Additional Descriptions for Materials Listed Above K. Handling Codes for Wastes Listed Above EMERGENCY RESPONSE INFORMATION: 11a - 11b. WMDS 682748, Lab-Pack, Lists Attached Infotrack 0 1-800-535-5053 Dina Ginn 0 (206) 764-4478 if no alternate TSDF, return to generator 15. Special Handling Instructions and Additional Information Certificate of Destruction Required ERG# 126 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations and Arkansas state regulations.

If I am a large quantity generator, I certify that I have a program in place to reduce the volumn and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford. for US Army Corps of Eng. Month Day Year OKISMER 17. Transporter 1 Acknowledgement of Receipt of Materials Printed/Typed Name Signatu Printed/Typed Name Month Day Year 19. Discrepancy Indication Space 20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19. PA Form 8700-22 (Rev. 9-88) Previous edition is obsolete.

#### See Instructions on back of page 6.

Department of Toxic Substances Control Sacramento, California

							Sacramento, California
١	UNIFORM HAZARDOUS  1. Generator's US EP	A ID No.	Manifest Documer	nt No.	2. Page 1		on in the shaded areas uired by Federal law.
	WASTE MANIFEST WAROLOLO	0 1 1 3 5 3	0 5 1	8	9 of <b>/</b>		_
	3. Generator's Name and Mailing Address			A. State	Manifest Document	_	F00/00
	USDA FSA Whiteaker Farm c/o US Army				•	9	5364286
	Seattle District, P.O. Box 3755, Se	•		B. State	Generator's 1D		
ļ	4. Generator's Phone (208 764-4478  5. Transporter 1 Company Name 6.	Attn: Dina US EPA ID Number	Ginn				
	5. Transporter 1 Company Name  6. Environmental Transportation	US EPA ID Number		C. State	Transporter's ID	*	
		h		D. Trans	porter's Phone	200 6	70 4000
ŀ	7. Transporter 2 Company Name 8.	K D 8 1 6 0 US EPA ID Number	5 3 6 3	E. State	Transporter's ID	800-6	77–1772
1							
ļ					porter's Phone		
		US EPA ID Number		G. State	Facility's ID		
1	Ensco West, Inc.			H Facilit	y's Phone		
	1737 East Denni Wilmington, CA 90744	ADD014141412	عاداهاما		•	10) 01	35-0775
Ì	11. US DOT Description (including Proper Shipping Name, Hazard Clas		12. Com		13. Total	14. Unit	33-U/15
-		s, and 10 Number)	No.	Туре	Quantity	Wt/Vol	I. Waste Number
	Waste Ammonium Nitrate Mixe	d Fertilizers					State WA-WTO2
	E			,	_, , , ,		EPA/Other
-	5.1, NA2069, PG II		001	DF	0002220	P	D001
1	Non-RCRA Hazardous Waste So	lid					State WA-WTO2
	•		اداماءا	- h		ъ.	EPA/Other
ŀ	C.		001	D B.	010121010	Þ	NR State
							- Cidio
				1			EPA/Other
r	d.	<u> </u>		I			State
				ı			EPA/Other
	J. Additional Descriptions for Materials Listed Above				ing Codes for Waste		Pove
	11a. WMDS 682745, Mixed Ammonium Ni	trate	İ	a.		b.	
ı	11b. WMDS 682746, Zinc Sulfate		}	с.		d.	
				•		<b>u.</b>	
ſ	15. Special Handling Instructions and Additional Information						
	In event of emergency or accidental Dina Ginn @ (206) 764-4478	release, con	tact Info	otraci	< <b>@1</b> -800-5	35-509	3 and
	Certificate of Disposal/Destruction	Required	11a.	ERG #	<sup>‡</sup> 140		
ŀ	16. GENERATOR'S CERTIFICATION: I hereby declare that the contents					inning nam	and are elevitical
	packed, marked, and labeled, and are in all respects in proper cond	ition for transport by high	vay according to	applicable	international and n	ational gove	ernment regulations.
	If I am a large quantity generator, I certify that I have a program	s in place to reduce the v	alume and taylait	h of wast	a generated to the	dograe I h	ana dataminad ta ba
	economically practicable and that I have selected the practicable m	ethod of treatment, storag	e, or disposal cui	rrently avo	ilable to me which	minimizes t	he present and future
	threat to human health and the environment; OR, if I am a small a waste management method that is available to me and that I can af	juantity generator, I have to	made a good fai	ith effort t	o minimize my wast	te generatio	on and select the best
Γ	Printed/Typed Name for US ARMY Corps of Eng.	Signature for US	Army Corp	sor	Eng.	Mon	th Day Year
$\perp$	Dring Goodlet	Chi	1/20 1000	(m)		01	63037
	17. Transporter 1 Acknowledgement of Receipt of Materials, Primed/Typed Name	Signatura	<del></del>			Mon	4h D V
1	OR - S LERRY WHI NOT	Signal Signal		- \		7	th Day Year
Ĺ	18. Transporter 2 Acknowledgement of Receipt of Materials	1 \		$\overline{}$			2 5 W 7 W
	Printed/Typed Name	Signature	Ą			Mont	th Day Year
+	10 Discrepancy Indication Space	$\overline{}$					
	19. Discrepancy Indication Space						
	·						
	20. Facility Owner or Operator Certification of receipt of hazardous ma		fest except as not	ted in Item	19.		
	Printed/Typed Name	Signature				Mont	h Day Year
1	I					- I .	

リカイウはイルち CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7!

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPO

### **Land Disposal Restriction Notification**

LAND DISPOSAL RES	TRICTION NOTIFICATION FORM the Treatment Standards Found in 40 CFR 268	page 1 of	2
		nifest No.: 05188/AR 758714	
S S Wastewater	Waste Codes * and Su D001, D005, D008, D035, P044, D016	bcategories , D026, D036	Special Conditions B
	]		
Non-CWA equivilent or NWMDS or List the constitutions:  Special Conditions:  A. Wa B. Lat C. Ha. D. Ha. E. Wa F. Wa trea G. For	ous Constituents must be identified for waste stream Not Treated by CMBST or RORGS), D002, D012-D0 Non-SDWA facilities). Include a copy of the Universituents for each affected WMDS.  Inste Requiring No Further Treatment of Pack Waste Qualifying for Alternative Treatment upgrardous Waste Debris subject to standard treatment zardous Waste Debris subject to alternative standariste Qualifying for Exemption and not subject to Language already treated to remove a hazardous character alment for underlying hazardous constituents (List of Chemical Manufacturers, Petroleum Refineries, Confront DFs handling wastes subject to 40 CFR 61 subpart Fs waste is a "Controlled Benzene Waste" which is suirements of 40 CFR 61 subpart Ff.	nder 40 CFR 268.42(c) t requirements, 40 CFR 268.40 ds in 40 CFR 268.45 (List Contaminal d Disposal Restriction (Explain) eristic which requires additional constituents) ke By-Product Facilities and RCRA FF ONLY:	CWA, h affected
knowledge of the waste(s			1
I hereby certify that I beli	eve that the information I submitted is true, accurate $\Lambda$	and complete.	
Signature		Project Hanager Date	6/30/14
Waste Streams Identified by Special Condition A:	or through knowledge of the waste to support this certification specified in 40 CFR Part 268 Subpart D and all applicable pro 3004(d). I believe that the information I submitted is true, act I am aware that there are significant penalties for submitting a imprisonment.	nthat the waste complies with the treatment star phibitions set forth in 40CFR 268.32 or RCRA securate and complete	ndards ection
Waste Streams Identified by Special Condition B:	I certify under penalty of law that I personally have examined contains only wastes which have not been excluded under ap regulation under 40 CFR 261. I am aware that there are signil the possibility of a fine and imprisonment.	pendix IV to 40 CFR 268 or solid wastes not suit	higgs to
Waste Streams Identified by Special Condition F:		aste contains underlying hazardous constituent	- 464

MXFor WMDS 682748 ... the Underlying Constituents have been identified by marking the box to the left of each constituent.

MANIFEST \_05188

 $\ensuremath{\square}$  None of the Underlying Constituents are present in the following WMDS(s):

*	Constituents by Chemical Nam	W				w	, NM	Ν				
_	☐ Acenaphthylene		nc. Con		Constituents by Chemical Name	e Con	c. Con	c.	Constituents by Chemical Name	W۱		i₩∧
	☐ Acenaphthene		059 3		1,2-Dichloroethane	0 2	21 6	)	☐ 5-Nitro-C-Toluidine			one.
	☐ Acetone		059 3,4		1,1-Dichloroethylene	0.0	25 6	)	☐ O-Nitrophenol		32	28
	Acetonie     Acetonitrile		28 16		☐ Trans-1,2-Dichloroethylene	0.0	54 30	1	☐ P-Nitrophenol	. 0	028	13
	☐ Acetoritine ☐ Acetophenone		6 1.8		☐ 2,4-Dichlorophenol	0 04	44 14		☐ N-Nitrosodiethylamine	0	12	29
	· · · · · · · · · · · · · · · · · · ·		010 9.7		☐ 2,6-Dichlorophenol	0.04			☐ N-Nitrosodimethylamine	0	40	28
	2-Acetylaminofluorene		)59 140		☐ 1,2-Dichloropropane	0.8			☐ N-Nitroso-Di-N-Butylamine	0	.40	23
	⊒ Acrolein	0.1	29 NA		☐ Cis-1,3-Dichloropropylene	0.03			A Missesse Albertain	0	40	17
	☐ Acrylamide	1	9 23		☐ Trans-1,3-Dichloropropylene	0.03			☐ N-Nilrosomethylethylamine	0	40	23
	☐ Acrylonitrile	0.2	24 84		□ Dieldrin	0.01			☐ N-Nitrosomorpholine	0	40	23
	Aldrin	0 0	21 0.06	6	☐ Diethyl Phthalate	0.20		,	☐ N-Nitrosopiperidine	0.0	013	35
	3 4-Aminobiphenyl	0.1	13 NA		☐ 2-4-Dimethyl Phenol	0.03			☐ N-Nitrosapyrralidine		113	35
	Anitine	0.8	31 14		☐ Dimethyl Phthalate	0.03			☐ Parathion		14	46
	Anthracene	0.0	59 3.4		☐ Di-N-Butyl Phthalate	0.04			Total PCBs	0		10
	] Aramite	0.3	6 NA		☐ 1,4-Dinitrobenzene				Pentachlorobenzene	0.0		10
	] Alpha-BHC	0 000	014 0.068	5	☐ 4,6-Dinitro-O-Cresol	0.32			PECDDs (All Pentachlorodibenzo-P-Dioxi	ns) 0.000		0 00 1
C	Beta-8HC	0.000	0.066	3	2.4-Dinitrophenol	0 28			PECDFs (All Pentachlorodibenzofurans)	0 000		001
C	Delta-BHC	0.02			2,4-Dinitrotoluene	0.12			Pentachloroethane	00		
	I Gamma-BHC	0.00			☐ 2,6-Dinitrotoluene	0.32		- 1	☐ Pentachloronitrobenzene	0.0		60
	Benzene	0.1				0.55	28	1	☐ Pentachicrophenol	0.0		48
	Benz(A)Anthracene	0.05			□ Di-N-Octyl Phthalate	0.017		(	☐ Ethyl Methacrylate			7 4
	Benzal Chloride	0.05			☐ P-Dimethylaminoazobenzene	0.13	NA		] Phenacelin	0 1		160
	Benzo(B)Fluoranthene	0.00			□ Di-N-Propylnitrosamine	0.40	14		☐ Phenanthrene	0.08		16
	Benzo(K)Fluoranthene	0.1			1,4-Dioxane	NA	170	(	□ Phenol	0.05		5 6
	Benzo(G,H,I)Perylene	0.1			☐ Diphenylamine	0.92	13		☐ Phorate	0.03		62
	Benzo(A)Pyrene	0 003			☐ Diphenylnitrosamine	0 92	13	0	Phthalic Acid	0.02		46
	Bromodichloromethane			{	1,2-Diphenylhydrazine	0 087	NA		Phthalic Annydride	0 05		28
	Methyl Bromide (Bromomethane)	0.35			Disulfoton	0 0 1 7	6.2		] Pronamide	0 05		28
	4-Bromophenyl Phenyl Ether	0.11			□ Endosulfan I	0 023	0 066		Pyrene	0 09		15
	N-Butyl Alcohol	0.05			I Endosulfan Li	0 029	0.13		Pyridine	0 06	7 ყ	3 2
	Butyl Benzyl Phthalate	5 6			Endosulfan Sulfate	0.029	0 13		I Safrole	0.01	4 1	16
		0.017		C	3 Endrin	0 0028			Silvex (2,4 5-Tp)	0 08	1 2	22
	2-Sec-Butyl-4,6-Dinitrophenol (Dinoseb)			0	I Endrin Aldehyde	0.025	0.13			0.72	? 7	ġ
	arbon Disulfide	3.8	4.8 mg/	1 0	Ethyl Acetate	0.34	33	_	2,4,5-T (2,4,5-Trichlorophenoxyacetic Acid)	0.72	? 7	9
Ţ	Carbon Tetrachloride	0.057	7 6.0		Ethyl Cyanide (Propanenitrile)	0.24	360	_	1,2,4,5-Tetrachloropenzene	0.05	5 1	14
	Chlordane (Alpha And Gamma Isomers)	0.003	3 0.26		I Ethyl Benzene	0 057	10		TCODs (All Tetrachlorodibenzo-P-Dioxins)	0 0000	63 00	JO 1-
	P-Chloroaniline	0.46	16		Ethyl Ether	0.12			TCDFs (All Tetrachloredibenzefurans)	0 0000		
	Chlorobenzene	0.057	6.0		Bis(2-Ethylhexyl) Phthalate		160		1,1,1,2-Tetracnioroethane	0 057		
	Chlorobenzilate	0 10	NA		Ethylene Oxide	0.28	. 28		1,1,2,2-Tetrachloroethane	0 057	-	
	2-Chloro-1,3-Butadiene	0.057	0.28		Famphur	0 12	NA		Tetrachlorcethylene	0.056	-	
	Chlorodibromomethane	0.057	15		Fluoranthene	0.017	15		2,3,4,6-Tetrachiorophenol	0 030	•	
	Chloroethane	0 27	6.0		Fluorene	0 068	3.4		Toluene	0 080		
	Bis(2-Chloroethoxy)Methane	0.036			Heptachior	0.059	3 4		Toxaphene	0 0095		
	Bis(2-Chloroethyl)Ether	0.033			Heptachlor Epoxide	0.0012	0 066		Bromoform (Tribromomethane)	0 63	15	
	Chloroform	0.046	6.0		Hexachlorobenzene	0 016	0 066		1,2,4-Trichtorobenzene	0.055		
	Bis(2-Chloroisopropyl)Ether	0.055	7.2		Hexachlorobutadiene	0.055	10		1,1,1-Trichloroethane	0.054		
	P-Chloro-M-Cresol	0.018	14		Hexachlorocyclopentadiene	0.055	5.6		1,1,2-Trichloroethane	0.054		
Ξ	2-Chloroethyl Vinyl Ether	0 062	NA	_	HXCDDs (All Hexachlorodibenzo-P-Dioxir	0.057	2.4		Trichloroethylene	0.054	60	
ב	Chloromethane(Methyl Chloride)	0.19	30		HXCDFs (All Hexachlorodibenzofurans)				Trichloromonofluoromethane	0.020	30	
<b>コ</b> :	2-Chloronaphthalene	0.055	5.6		Hexachioroethane	0.000063	0 001		2.4,5-Trichlorophenol	0 18		
	2-Chlorophenol	0.044	5.7		Hexachioropropylene	0.055	30		2,4,6-Trichlorophenol	0.035	7 4	
	I-Chloropropylene	0.036	30			0.035	30		1,2,3-Trichloropropane		7.4	
1	Chrysene	0.059	3.4		Indeno (1,2,3-C,D) Pyrene	0.0055	3.4		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.85	30	
3 (	D-Cresol	0.11	5.6		lodomethane	0.19	65		Tris-(2,3-Dibromopropyl) Phosphate	0.057	30	
u l	A-Cresol	0.77			Isobutyl Alcohol	5.6	170		Vinyl Chloride	0.11	0 10	
	2-Cresol		5.6		Isodrin	0.021	0.066		Xylenes-Mixed Isomers(Sum CI O-,M-, & P-)	0 27	6.0	
7 (	Cyclonexanone	0.77	5.6		Isosafrole	0.081	2.6	α.	Antimony	0 32	30	
	,2-Dibromo-3-Chloropropane		0.75 mg/l		Kepone	0.0011	0.13		Arsenic	1.9	2.1 mg	g.
1.8	hylene Dibromide (1,2-Dibromoethane)	0.11	15		Methacrylonitrile	0.24	84		Barium	1.4	5 0 mg	g:
	ibromomethane		15		Methanol		0.75 mg/l		Beryllium	1.2	7.6 mg	g/i
		0.11	15		Methapyrilene	0.081	1.5		Cadmium	0 82	0.014 m	ng
10	.4-D (2,4-Dichlorophenoxyacetic Acid) .P'-000	0.72	10		Methoxychlor	0.25	0.18			0 69	0 19 m	iG
	P'-000	0.023	0.087		3-Methylcholanthrene	0.0055	15	ָר ר	Chromium (Total)	2.77	0.86 m	-
	P'.nng	0.023	0.087		4,4-Methylene Bis(2-Chloroaniline)	0.50	30	ם כ	Cyanides (Total)(4)	1.2	590	-
	.P'-ODE .P'-OOE	0.031	0.087		Methylene Chloride	0.089	30	Ü (	Cyanides (Amenable)(4)	0.86	30	
		0.031	0 087		Methyl Ethyl Ketone				luoride	35	NA	
	P'-00T	0039	0.087		Methyl Isobutyl Ketone	0 28	36			0.69	0 37 m	:
	P'-00T	0.0039	0.087		Methyl Methacrylate	0 14	33	□ v	Mercury-NWW From Retort	NA	0.20 mg	-
Ü	benz(A,H)Anthracene	0 055	8.2		Methyl Methansulfonate	0 14	160		dercury-All Others		0.025 m	-
	enz(A.E)Pyrene	0.061	NA		Methyl Parathion	0 0 1 8	NA		lickel	3 98	5.0 mg	
	Dichlorobenzene	0 036	6.0		Naphthalene	0 014	46		elenium	0 82	0 16 mg	
(	Dichlorobenzene	880 0	60		-Naphthylamine	0.059	5 6	o s		0 43	0 30 mg	•
٠٠.	Dichlorobenzene , (	0 090	60		2-Nitroaniline	0 52	NA		ulfide	14	NA NA	,
7	chlorodifluoromethane	0 23	72		-Nitroaniline	0 27	14		hallium		0 078 m	
ا نب	l: Dichloroothage	059	60		litrobenzene	0.028	28		anadium .		0 23 m :	
						0.068	14		nc (Not An "UHC")	261	5 3 ma	

LAND DISPOSAL For Wastes Subject	ct to the	e Treat	ment S	Standar	ds Fo	und in 4	0 CFR	268	•				-	page	1. of	
Generator Name:_	USDA	/FSA	White	eaker	Fari	n		М	lanife	st No.:		5189	/CA	9536	4286	
WMDS & 682745	Non-wastewater		DX	001 U	SDOT	Waste Oxidi		* and S	Subca	ategori	es			•		Special Conditions
682746			No	on-RC	RA Ha	azardo	us Wa	ste S	olio	i						
															•	
· .											· · · · · · ·					
					•	<del>-</del>										
			·····													
*The Underlying Ha =039, D001 (only Down Non-CWA equivilent WMDS or List the conditions:	t or No	n-SDW	/A facil	ities)	Inclu	JRGO), de a cor										
A. B. C. D. E. F.	Lab F Hazar Hazar Waste Waste treatm For C TSDF This v	Pack Wrdous \ rdous \ rdous \ Quali alrea nent for hemica s hand vaste is	aste Q Waste   Waste   fying fo dy trea r under al Manu lling was s a "Co	ualifyin Debris Debris or Exen ted to r lying h ufacture astes se	ig for A subject of Benzella (1997)	eatment Alternation to star to to alternation and noternation and noternation and to 40 Compart FF.	ve Treandard to mative subject stituent Refine FR 61 steel was to the steel was to the steel was to the steel was	reatment standard to Landard character (List eries, Casternatus)	nt rec ards i nd Di teristi cons oke E	uirement 40 Clasposal control tituents by Proceedings	ents FR: Re: h re s)	, 40 Cf 268.45 striction quires Facilit	FR 20 List n (Ex addition	st Con (plain) tional		ants)
Waste analysis is att	3(6(3).												upor	n my tł	noroug	h
hereby certify that I	$\left(\begin{array}{c} \cdot \\ \cdot \end{array}\right)$	•	he info D	rmation	n I sub .A	mitted is	s true,									
Signature Vaste Streams Ident by Special Condition	A: os 3	certify u r throug pecified 004(d). am awa	in 40 CF I believ re that th nent,	R Part 2 e that the tere are	268 Sub e inform significa	part D an nation I su ant penalt	d all app bmitted les for si	examined ertification licable profis true, a ubmitting	d and on that rohibition to the courat a false	ons set e and co e certific	liar wate conforth forth completes ation	vith the vomplies vin 40CF	waste with th FR 268 Ing the	ie treati 3.32 or e possib	ment sta RCRA s pility of a	s and testing andards ection fine and
'aste Streams Ident y Special Condition	B: co	egulation le possib	under 4 pility of a	0 CFR 2	261, I ar I impriso	Jimilent.	hat there	are sign	nificant	penaltie	40 Ci es foi	FR 268 ( submitt	or soli ting a	d waste false ce	es not su ertification	ibject to in, including
Vaste Streams Ident y Special Condition	F: re	rther tre	atment t	o meet u	iniversa		nt standa	ude lan	wasie	contains a that th						t 268.40 to ts that require pomitting a

#### Universal Treatment Standards 40 CFR 268.48

For WMDS \_\_\_\_\_\_, the Underlying Constituents have been identified by marking the box to the left of each constituent.

MANIFEST 05189

	682745, 682	746	•		7 (3).								-
1		WW	/ NW	v									
	Constituents by Chemical Nam		c. Cond		Constituents by Chemical Nam	ww	NW			WV	v	h 11 4 6 4 .	
	☐ Acenaphthylene	0.0			☐ 1,2-Dichloroethane				Constituents by Chemical Name	Cor		NWW	
	☐ Acenaphthene	0.05			☐ 1,1-Dichloroethylene	0 2			☐ 5-Nitro-O-Toluidine		32	Conc	
	☐ Acetone	0.2				0.02			☐ O-Nitrophenol			28	
	☐ Acetonitrile	5.6			i di	0.05		)	☐ P-Nitrophenol		028	13	
	☐ Acetophenone	0.01			2,4-Dichlorophenol	0 04		ŀ	☐ N-Nitrosodiethylamine		12	29	
	☐ 2-Acetylaminofluorene	0.05			☐ 2,6-Dichlorophenol	0.04	4 14		☐ N-Nitrosodimethylamine		40	28	
	☐ Acrolein	0.29			1,2-Dichloropropane	0 85	18		☐ N-Nitroso-Di-N-Butylamine		40	23	
	☐ Acrylamide	19			☐ Cis-1,3-Dichloropropylene	0.036	5 18		☐ N-Nitrosomethylethylamine	0 -		17	
	☐ Acrylonitrile	0.24			Trans-1,3-Dichloropropylene	0.036	18		☐ N-Nitrosomorpholine	0.		23	
	☐ Aldrin				Dieldrin	0 0 1 7	0.10	3	☐ N-Nitrosopiperidine	0 4		23	
	☐ 4-Aminobiphenyl	0 02			Diethyl Phthalate	0.20	28		☐ N-Nitrosopyrrolidine	0 0		35	
	☐ Aniline	0.13			2-4-Dimethyl Phenol	0.036	14		☐ Parathion	0 0		35	
	☐ Anthracene	0.81			Oimethyl Phthalate	0.047	28		☐ Total PCBs	0 0		4 6	
	☐ Aramite	0.059			Di-N-Butyl Phthalate	0.057	28		☐ Pentachlorobenzene	0 1		10	
	☐ Alpha-8HC	0.36			1 1,4-Dinitrobenzene	0.32	2.3		PECDDs (All Pentachlorodibenzo-P-Dioxii	0.0		10	
	☐ Beta-BHC	0.000			4,6-Dinitro-O-Cresol	0 28	160		PECDFs (All Pentachlorodibenzofurans)	ns) 0 000	063	0 00 1	
		0.000		_	2,4-Dinitrophenol	0.12	160		Pentachloroethane	0 000	035	0 00 1	
	Delta-BHC	0.023		C	2,4-Dinitrotoluene	0.32	140		Pentachioroetnane     Pentachioronitrobenzene	0.05	i5	60	
	□ Gamma-BHC	0.001	7 0.066		2,6-Dinitrotaluene	0.55	28		- Postachioronitropenzene	0.05	5	48	
	□ Benzene	0.14	10	C	Di-N-Octyl Phthalate	0.017	28		☐ Pentachlorophenol	0 08	9	7 4	
	☐ Benz(A)Anthracene	0.059	3.4		P-Dimethylaminoazobenzene	0.13	NA NA		□ Ethyl Methacrylate	0.14	4	160	
	Benzal Chloride	0.055	6.0		Di-N-Propylnitrosamine	0.40			☐ Phenacetin	0.08	1	16	
	☐ Benzo(B)Fluoranthene	0.11	6.8		1,4-Dioxane		14		Phenanthrene	0 05		5 6	
	☐ Benzo(K)Fluoranthene	0 11	6.8		Diphenylamine	NA 0.00	170		Denoi	0.03		62	
	□ Benzo(G,H,I)Perylene	0.0055	1.8		Diphenylnitrosamine	0 92	13		Phorate	0 02		46	
	□ Benzo(A)Pyrene	0.061	3 4		1,2-Diphenylhydrazine	0.92	13		Phthalic Acid	0 05		28	
	☐ Bromodichloromethane	0 35	15		Disulfoton	0 087	NA		Phthalic Anhydride	0 05		28	
	☐ Methyl Bromide (Bromomethane)	0 11	15		Endosulfan I	0 0 1 7	6 2		] Pronamide	0 09:		15	
(	☐ 4-Bromophenyl Phenyl Ether	0.055	15		Endosulfan LI	0 023	0 066		Pyrene	0 067		8.2	
	□ N-Butyl Alcohol	5 6	2.6		Endosulfan Sulfate	0 029	0.13		Pyridine	0 0 1 4		16	
	3 Butyl Benzyl Phthalate	0 017	28		Endrin	0 029	0 13		Safrole	0 08 1		22	
r	7 2-Sec-Butyl-4,6-Dinitrophenol (Dinoseb	0.066	2.5		Endrin Aldehyde	0 0028	0 13		I Silvex (2,4,5-Tp)	0 72			
	'arbon Disulfide	3.8	4.8 mg/!		Ethyl Acetate	0.025	0.13		2,4,5-T (2,4,5-Trichlorophenoxyacetic Acid)	0 72		7 9 <b>7</b> 0	
	Carbon Tetrachloride	0.057	6.0			0 34	33		1,2,4,5-Tetrachlorosanzene	0 055		79	
	Chlordane (Alpha And Gamma Isomers	0.0033	0.26		Ethyl Cyanide (Propanenitrile)	0.24	360		TCDDs (All Tetrachlorodibenzo-P-Dioxins)	0 00006		14	
_	P-Chloroaniline	0.46	16		Ethyl Benzene	0 057	10		TCDFs (All Tetrachlorodibenzofurans)	0 00000		0 00 1	
C	] Chlorobertzene	0 057	6.0		Ethyl Ether	0.12	160		1,1,1,2-Tetrachioroetnane			0 00 1	
:	Chlorobenzilate	0 10	NA		Bis(2-Ethylhexyl) Phthalate	0 28	28		1,1,2,2-Tetrachloroethane	0.057		60	
:	2-Chloro-1,3-Butadiene	0.057	0.28		Ethylene Oxide	0.12	NA		Tetrachloroethylene	0 057		60	
	Chlorodibromomethane	0.057	15		Famphur	0.017	15		2,3,4,6-Tetrachlorophenol	0 056		6 O	
	Chloroethane	0.037	6.0		Fluoranthene	0 068	3 4		Toluene	0.030		7 4	
	Bis(2-Chloroethoxy)Methane	0.036			Fluorene	0.059	3.4		Toxaphene	0 080		10	
	Bis(2-Chlaroethyl)Ether	0.033	7.2 6.0		Heptachlor	0 0012	0.066			0 0095		26	
	Chloroform	0.033	6.0		Heptachlor Epoxide	0 0 1 6	0 066		1,2,4-Trichlorobenzene	0 63		15	
	Bis(2-Chloroisopropyl)Ether	0.055	7.2		dexachlorobenzene	0 055	10		1,1,1-Trichloroethane	0.055		19	
	P-Chlora-M-Cresal	0.018	14		dexachlorobutadiene	0 055	5.6		1,1,2-Trichloroethane	0.054		60	
	2-Chloroethyl Vinyl Ether	0.010	NA	<u> </u>	dexachlorocyclopentadiene	0.057	2.4		Trichloroethylene	0 054		60	
3	Chloromethane(Methyl Chloride)	0.19	30		XCDDs (All Hexachlorodibenzo-P-Dioxi	ns) 0 000063	0 001		Trichloromonofluoromethane	0.054		60	
	2-Chloronaphthalene			0 1	XCDFs (All Hexachlorodibenzofurans)	0.000063	0 001		2,4,5-Trichlorophenol	0 020		30	
	2-Chlorophenol	0.055 0.044	5.6	<u>u</u> ,	texachloroethane	0.055	30		2.4,6-Trichlorophenol	0.18		7.4	
	3-Chloropropylene		5.7		lexachloropropylene	0.035	30		1,2,3-Trichloropropane	0 035		7.4	
	Chrysene	0.036 0.059	30		ndeno (1,2,3-C,D) Pyrene	0.0055	3.4		1,1,2-Trichloro-1,2,2-Trifluoroethane	0.85		30	-
	O-Cresal		3.4		odomethane	0.19	65		Tris-(2,3-Dibromopropyl) Phosphate	0 057		30	
	M-Cresol	0.11	5.6		sobutyl Alcohol	5.6	170		Vinyl Chloride	0.11	0	10	
	P-Cresol	0.77	5.6		sodrin	0.021	0.066		Xylenes-Mixed Isomers(Sum Of O-,M-, & P-)	0.27	6	5.0	
	Cyclohexanone	0.77	5.6		osafrole	0.081	2.6		Antimony	0 32	:	30	
	1,2-Dibromo-3-Chloropropane		).75 mg/l		epone	0.0011	0.13		Arsenic	1.9	2.1	mg.	
	Ethylena Dihomida (4.3 Dih	0.11	15		lethacrylonitrite	0.24	84		Barium	14	50	mg .	
	Ethylene Dibromide (1,2-Dibromoethane) Dibromomethane	0.028	15		lethanol		.75 mg/l		sanum Beryllium	1.2	7.6	mg/i	
		0.11	15		ethapyrilene	0.081	1.5		-	0.82	0.014	4 mg	
u	2,4-D (2,4-Dichlorophenoxyacetic Acid) O,P'-DDD	0.72	10		ethoxychlor	0.25	0.18		Cadmium	0 69	0 19	-	
		0.023	0.087	□ 3	Methylcholanthrene	0.0055		0 0	Chromium (Total)	2.77	0.86	mg.	
	P,P'-000		0.087	Q 4	4-Methylene Bis(2-Chloroaniline)	0.0055	15 30	J.C.	Cyanides (Total)(4)	1.2		90	
	0.P'-00E P.P'-00E		0.087		ethylene Chloride	0.089	30	1	Cyanides (Amenable)(4)	0.86		0	
	·	0 03 1	0.087		ethyl Ethyl Ketone	0.089	36		luoride	35	N		
	9 P'-00T	0 0039	0.087	□м	ethyl Isobutyl Ketone	0.28				0.69	0 37		
	P.P'-ODT	0039	0.087	□м	ethyl Methacrylate		33	Π V	fercury-NWW From Retort	NA	0.20	•	
,	Dibenz(A,H)Anthracene	0.055	8 2	ΠМ	ethyl Methansulfonate	0 14	160		fercury-All Others		0 025	•	
	anz(A.E)Pyrene	0.061	NA	ΠМ	ethyl Parathion	0 0 1 8	NA 4.6		fickel	3 98	5.0 n		
	Dichlorobenzene	0 036			phthalene	0 014	46		elenium	_	0 16	•	
	)-Dichlorobenzene	0 088			Naphthylamine	0 059	5 6				0 30 6	•	
,	-Dichloration	0 090			Nitroaniline	0 52	NA 14		ulfide	14	N/	•	
٠, ١	Dichlorodifluoromethane	0 23			Vitroaniline	0 27	14		hallium		078		
1	1-Dichloroethane	0 059			robenzene	0 028 0 068	28		anadium		0 23 r		
						0.000	14	u Zi	nc (Not An "UHC")	261	5 3 m		
												-	

## **Lab-Pack Drum Inventory List**

# LAB PACK INVENTORY LIST DRUM NUMBER 2

	· · · · · · · · · · · · · · · · · · ·						
, USDA FSA WHITEAKER FARM	SHIPPING NAME: (RQ) WAS (ACETONE					o.s.	
HIGHWAY 7   TONAKSET, WA 98840   EPA/STATE ID NUMBER: WAROOO011353   MANIFEST NUMBER:   CUSTOMER CONTACT: DINA GINN, USACE	HAZARD CLASS: 3, PG 1 DOT ID NUMBER: UN1992 DRUM NUMBER: 2 PAGE: 1	11	WMDS: PACKI	68-3 Ng Clas	T48 ss: un1gy120 55 gallons		
CHEMICAL DESCRIPTION / UW CONTAIN	NER ID#			QUANT.		DW/	RQ/LAND
ACE CAMP WHITE GAS  Kerosene range hydrocarbons  metal can whit	1- 32 1 gallon	1 1	   MC 	5.500	   D001   WT02	DW	45.40
ACTIVATE-3 WETTING AGENT   Mineral oil and surfactants   plastic container   whit	1- 17 1 gallon	:	   PB				
ALUMASTIC SEALANT Petroleum Distillates, (non-asbestos) metal can marquis	1- 34 1 gallon	1 1	MC		  D001  WT02	DW	45.40
ALUMINUM BRAZING FLUX  Zinc chloride, ammonium chloride, petroleum d molecular weight alcohols bottle whit	1- 28   istillates, high   1 pt glass	1	GB	0.750	  D001  WT02	DW	45.40
AVIATION GASKET SEALER  Toluene, Acetone, phenol-aldehyde resin, isopr metal container marquis	1- 48   ropyl alcohol 1 pt	1	MC	0.500	D001 WT02	DW	45.40
BUTACIDE Piperonyl Butoxide Solution metal container whit	1- 31 1 gallon	1	MC	8.500	NR WT02	  DW   	
CHEMICAL MIXTURE Oil, water, phosphate detergent mixture plastic container, 2.5 gallons product whit	1- 15   5 gallon	1	PB  2	21.000	NR NR		
CHEVRON 90WT GEAR OIL 1 qt plastic bottle marquis	1- 38	1	PB	2.000 N	NR NR	<del> </del>	
mEVRON HEAVY DUTY GREASE  1 Pint plastic/fiber container whit	1- 19	1	PB	3.500 N  N			

DRUM NUMBER: 2 MANIFEST NUMBER: PACKING CLASS: UN1GY120 CUSTOMER CONTACT: DINA GINN, USACE DRUM SIZE: 55 GALLONS PAGE: 2 CONTAINERS QUANT. EPA/STATE DW/ RQ/LAND CHEMICAL DESCRIPTION / UW CONTAINER ID# |TYPE| (Kg) | WASTE #S EHW BANS COCLEMAN WHITE GAS 1- 36 MC | 5.500 D001 DW | 45.40 Kerosene range hydrocarbons 1 gallon WT02 metal can marquis DAP GLAZING COMPOUND #33 1- 42 | MC | 1.500|NR 1 DW Calxium carbonate, Magnesium silicate, Titanium dioxide, Mineral oil, WT02 " Linseed oil, Soybean oil, Mineral spirits 1 qt metal container marquis **IDECAMINE 4-D** 1- 33 1 | MC | 9.000 | D016 DW | 454.50| Amine Salt of 2,4-dichlorophenoxyacetic acid 1 gallon WP02 metal can whit FLECTO URETAHNE COATING 1- 25 | MC | 0.750 | D001 1 DW | 45.40 Mineral Spirits, urethane resin 1 pt metal |WT02 can whit FRANKLIN CONSTRUCTION ADHESIVE 1- 30 1 | PB | 0.750|NR latex, ethanol, and water 1 x 12 NR. oz tube, plastic whit FURNACE CEMENT (NON-ASBESTOS) 1- 44 1 | MC | 0.500 NR DW Sodium silicates, clay, carbon 1 pt WT02 metal container marquis HENRY WATERPROOF ADHESIVE 1- 39 | MC | 3.000|D001 2 DW | 45.40 Methanol, Petroleum distillates, silicone resin 2 x 1 pt WT02 metal container marquis KEM-GLO SEMI ENAMEL 1- 24 MC | 7.750 | D001 2 DW 45,40 Mineral spirit, alkyd resins, oil varnish, titanium dioxide, other WT02 pigments and fillers 1 qt, 1 gallon metal whit LATEX FLAT WALL PAINT 1- 37 MC | 8.900 NR DW Mineral oil, acrylic elastomers, titanium dioxide, emulsifiers, oher WT02 inert pigments 1 gallon metal can marquis LEAD PLATE ANTI-SEIZE 1- 45 1 MC | 1.200 D008 DW 4.54 Lead containing lubricant - petroleum based 1 pt WT02 metal container

MANIFEST NUMBER: DRUM NUMBER: 2 PACKING CLASS: UN1GY120 CUSTOMER CONTACT: DINA GINN, USACE DRUM SIZE: 55 GALLONS PAGE: 3 |CONTAINERS |QUANT. | EPA/STATE DW/ RQ/LAND CHEMICAL DESCRIPTION / UW CONTAINER ID# TYPE (Kg) | WASTE #S EHW! BANS MACS TAR REMOVER 1- 29 MC | 1.200|D001 DW 45.40 Petroleum Distillates 1 pt WT02 metal can whit MARSHALL EXTERIOR HOUSE PAINT 1- 51 MC | 2.000 NR DW | Titanium dioxide, Silica, Calcium Carbonate, Alkyd resin emulsion, WT02 Water 1 qt metal container marquis MARSHALL LUBRICANT 1- 49 1 | MC | 1.750|NR D₩ Petrolatum, 1,1,1-trichloroethane 1 qt WP02 metal can marquis MINERAL OIL 1- 18 1 GB | 1.500 NR 1 qt glass bottle NR whit OIL FILTERS 1- 27 2 MC | 3.500 NR 2 x 1 quart metal oil filters NR whit |OIL-BASE RUST COATING 1- 41 1 MC | 0.750|D001 DW | 45.40 Petrolatum, Stoodard Solvents, Corrosion inhibitor, Carbon Black WT02 1 pt metal container marquis OLYMPIC OIL STAIN 1- 23 1 MC | 8.000 D001 DW 45.40 petroleum distillates, colorant 1 gallon metal container whit PERMATEX ADHESIVE SEALANT 1- 21 1 | PB | 0.500| Eoxy resin 35%, Polyamide resin 35% 1 x 6 oz. WT02 plastic tube whit PIPE AND JOINT COMPOUND 1- 43 | MC | 0.500|NR DW Linseed oil, Lithopone, Slate filler 1 pt metal WT02 container 1 pt metal container marquis POLYURETHANE FLOOR AND DECK ENAMEL 1- 35 MC | 8.500|D001 1 DW | 45.40 Mineral Spirits/VM & P naptha, urethane resin, pigments 1 gallon WT02 metal can marquis

1- 20 2 x	2	+				BANS
	1	P8	1.500	  D001  WT02	DW	45.40
	1 1	MC		:	DW	
1- 16 5 gallon	1	MC		<b>,</b>	DW	45.40
1- 47 1 qt	1 1	MC	*			
	1 1	MC	:		DW	
1- 26 l rubber	1	MC			DW	45.40
					+-+	
WAST	E WEIG	HT = '	169.			
TOTAL DRU	M WEIG	HT = 7	207.			
SOTTLE, MC = MET	AL CAN	. ALI	. OTHER	ABBREVIATIONS	ARE S	TANDARD
	thylene glycol, container  1- 16 5 gallon  1- 47 1 qt  1- 50 um salts, metal  1- 26 l rubber  WAST	thylene glycol, container  1- 16	thylene glycol, container  1- 16	1- 16	1- 16	1- 16

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## LAB PACK INVENTORY LIST DRUM NUMBER 3

USDA FSA WHITEAKER FARM	SHIPPING NAME: WASTE	E AEROSOL	S, Fla	mmable	(each not excee	eding	1 L
MANIFEST NUMBER:	HAZARD CLASS: 2.1 DOT ID NUMBER: UN195 DRUM NUMBER: PAGE: 1	·		NG CLAS	L748 s: unigyzo 5 gallons		
CHEMICAL DESCRIPTION / UW CONTAINER I	D#	CONT.		QUANT.	•	•	RQ/LAND
AERSOL BATTERY TERMINAL PROTECTOR   Petrolatum, 1,1,1-trichloroethane, Mineral spirit aerosol whit	1- 53 s 12oz. met	1	MC	1.500	  D001  WP02	DW	45.40
CHROME ALUMINUM SPRAY PAINT Aluminum Powder, Styrene Resin, Toluene, Acetone, Propane-isobutane aerosol whit	1- 56 Methanol, 12oz meta	1 1	MC	1.500	  D001  WT02	DW	45.40
CUT AND TAP CUTTING OIL, AEROSOL  Methylene Chloride, 1,1,1-trichloroethne, Methano oz. metal aerosol whit	1-54 l 2 x 1	1 1	MC		  D001  WP02	DW	45.40
CYCLO CARURATOR CLEANER  Methyl Ethyl Ketone, Acetone, IPA, cresols, Methy 12oz. metal aerosol  whit	1- 52 lene chloride	1	MC		D001 D026 D036 WT02	  DW   	45.40
OFF N,N-diethyl-m-toluamide metal aerosol whit	1- 55 12oz.	1	MC     MC	1.500	NR NR	<del>[                                    </del>	
	1	VASTE WEI	GHT =	6.5		i	
	<u> </u>	DRUM WEI					
CONTAINER TYPE ABBREVIATIONS: GB = GLASS BOTTLE, PB = PMANYFEST ABBREVIATIONS.  INVENTORY LIST REVIEWED BY:	PLASTIC BOTTLE, MC =	METAL CA	N. ALI	L OTHER	ABBREVIATIONS DATE:		

## **Certificate of Disposal/Destruction**

ENSCO environmental systems company

CERTIFICATION NO. 00211473

1737 EAST DENNI STREET WILMINGTON, CA 90744

(310) 631-2330

INVOICE NO. 243958

#### CERTIFICATE OF TREATMENT/DISPOSAL

KLEEN ENVIRONMENTAL TECH., INC ATTN: DARIN PERROLLAZ 1600 DEXTER AVE N., STE E LE, WA 98109

U.S.D.A. FSA WHITAKER FARM ATTN: DINA GINN T38N R27E , S27 HIGHWAY 7 TONASKET, WA 98840

ENSCO CERTIFIES THAT THE ITEMS ASSOCIATED WITH THE SHIPMENT IDENTIFIED BY MANIFEST CA095364286, MD# 05189 RECEIVED FROM U.S.D.A. FSA WHITAKER FARM HAVE BEEN PROCESSED AS DESCRIBED BELOW:

SEQ DESCRIPTION #	TREATMENT DATES	TREATMENT DISPOSAL METHOD
001 WASTE AMMONIUM NITRATE MIXED FERTILIZER 5.1 UN 2069 PG II 002 NON RCRA HAZARDOUS WASTE SOLID	08/13/97-08/13/97 07/23/97-08/18/97	

IF YOU HAVE ANY QUESTIONS REGARDING THIS CERTIFICATE OF TREATMENT/DISPOSAL, PLEASE CONTACT YOUR ENSCO SALES REPRESENTATIVE.

> NAME SCOT SHOEMAKER FACILITY MANAGER TITLE DATE\_ 8/20/97

ENSCO INCORPORATED

•			<b>.</b>	
	MA NACOUNT Stated to Date — If Error is Foundation	The Fact		

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## Appendix F

Photographic Record and Log

## Photograph Log

Photograph #	Description
1	Vent line - UST Wind Machine, Whiteaker Farm, View NW
2	Fill line/vent line, top of UST - Wind Machine, Whiteaker Farm, View SE
3	UST - Wind Machine - Whiteaker Farm, View SE
4	UST - Wind Machine, Whiteaker Farm, View SE
5	UST - Wind Machine, Staged and cleaned, Whiteaker Farm, View NW
6	UST - Wind Machine, site secured, Whiteaker Farm, View NW
7	UST Cavity - Wind Machine, Whiteaker Farm, View N
8	UST Cavity - Wind Machine, Whiteaker farm, View S
9	UST - Wind Machine, dismantled for scrap, Whiteaker farm, View S
10	Tank cavity - Wind Machine, Lined for Backfill, Whiteaker Farm, View S
11	Tank Site - Wind Machine, returned to grade, Whiteaker Farm, View N
12	Fiuel Shed Demo - Machine Shop, Whiteaker Farm, View W
13	Fill Line UST - Machine Shop, Whiteaker Farm, View W
14	Exposed UST - Machine Shop, Whiteaker Farm, View NW
15	300-gallon UST - Machine Shop, staged, Whiteaker Farm, View W
16	Tank Cavity - Machine Shop, Whiteaker farm, View W
17	Tank Cavity - Machine Shop, Whiteaker Farm, View N
18	UST site stockpile - Machine Shop, Whiteaaker Farm, View S
19	Tank Cavity, lined - Machine Shop, Whiteaker Farm, View SE
20	UST Site - Machine Shop, returned to grade, Whiteaker Farm, View W



 Vent Line - UST Wind Machine Whiteaker Farm, View - NW

2) Fill Line/Vent Line Top of UST Wind Machine, Whiteaker Farm View - SE





 UST - Wind Machine Whiteaker Farm, View - SE

4) UST - Wind Machine Whiteaker Farm, View - SE





5) UST Staged and Cleaned Wind Machine - Whiteaker Farm View NW

6) UST Site Secured Wind Machine, Whiteaker Farm View - NW

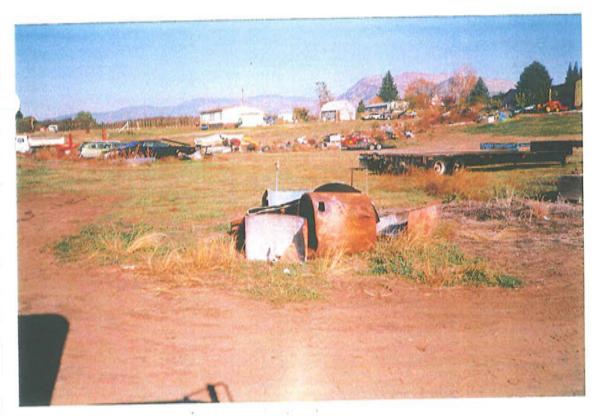




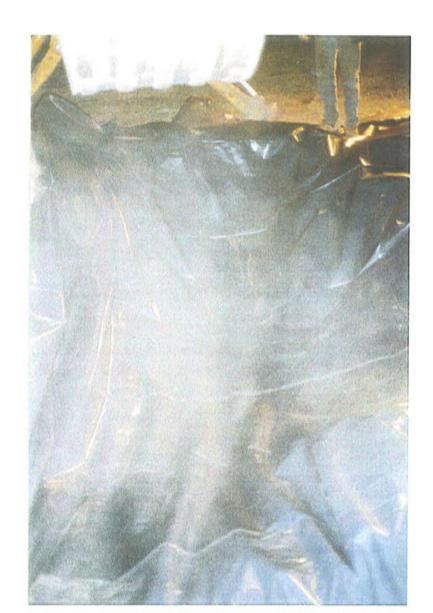
7) UST Cavity, Note Tank Depression Wind Machine, Whiteaker Farm View - N

8) UST Cavity, Wind Machine Whiteaker Farm, View - S





9) 500 gallon UST Dismantled for Scrap Wind Machine, Whiteaker Farm View S



10) Tank Cavity Lined for Backfill Wind MaChine, Whiteaker Farm View E



11) Tank Site, Wind Machine Returned to Grade Whiteaker Farm, View N



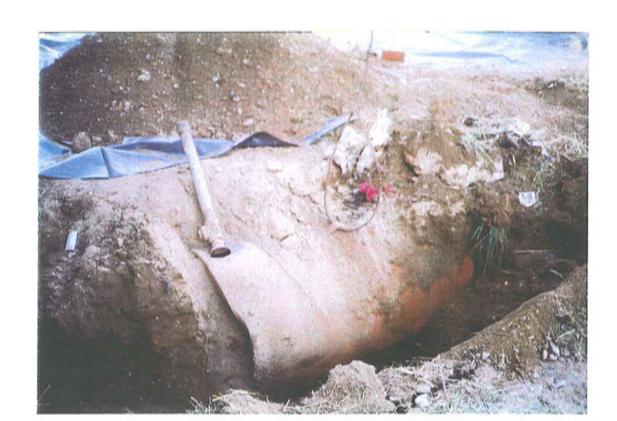
12) Fuel Shed Demo, Machine Shop Whiteaker Farm, View W

13) Fill Line UST, Machine Shop Whiteaker Farm, View W





14) Side of UST, Machine Shop Whiteaker Farm, View NW





15) 300 Gallon UST, Staged, Machine Shop Whiteaker Farm, View W





16) Tank Cavity, UST, Machine Shop Whiteaker Farm, View W



17) Tank Cavity, UST, Machine Shop Whiteaker Farm, View N



18) UST Site Stockpiled Soil Machine Shop, Whiteaker Farm View S

19) Lined Tank Cavity, Backfill Machine Shop, Whiteaker Farm View SE





20) UST Site, Returned to Grade Machine Shop, Whiteaker Farm View S