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ENTERPRISE PRODUCTS OPERATING LP

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FINAL CLOSURE REPORT

KUTZ SEPARATOR & HYDROCARBON RECOVERY PLANT Off Arizona Road (CR 4900) Section 11, Township 29N, Range 11W San Juan County, New Mexico

> March 22, 2011 SWG Project No. 0210008

> > Prepared for:

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FINAL CLOSURE REPORT

KUTZ SEPARATOR and HYDROCARBON RECOVERY PLANT Off Arizona Road (CR 4900) San Juan County, New Mexico

SWG Project No. 0210008

1.0 EXECUTIVE SUMMARY

This report documents the final facility decommissionaing and closure of the Enterprise Field Services, LLC (Enterprise) Kutz Separator and Hydrocarbon Recovery Plant. With the exception of a used oil storage tank, which is currently in service, the facility has been inactive since acquisition of the facility by Enterprise following the merger of GulfTerra Energy Partners L.P. (Gulfterra) and Enterprise in September 2004. Prior to decommissioning, the Kutz Separator and Hydrocarbon Recovery Plant, referred to hereinafter as the "Site" or "subject Site", consisted of approximately two (2) acres of security-fenced land previously developed with two (2) evaporation ponds (herein referred to as the North and South Ponds), eleven (11) steel storage tanks, four (4) open-top separator boxes, two (2) heater/separators, and a concrete drive connecting two of the three access gates. The land upon which this facility resides is currently leased from the United States Bureau of Land Management (BLM). The Site is located off Arizona Road (CR 4900) (N 36° 44' 08.04", W 107° 57' 31.70") in Section 11, Township 29N and Range 11W in San Juan County, New Mexico.

Specific details regarding the investigation are further explained in the following sections and should be read to fully comprehend the extent of the investigation and results. In addition, findings and recommendations are included in this executive summary for your convenience; however, the remaining text of the report and associated appendices should also be reviewed for a complete understanding of the limited investigation report.

The objectives of the closure activities completed at the Site were 1.) to remove the separation equipment, evaporation ponds and associated treatment and hydrocarbon recovery equipment; 2.) evaluate the presence of petroleum hydrocarbons in the onsite soil and groundwater, if encountered; and, 3.) restore the Site to natural grade and vegetation.

This facility, including the two evaporation ponds, formerly recovered hydrocarbons from liquids generated during natural gas production activities, which were separated during compression and processing. Therefore, the facility is subject to regulatory oversight by the New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD). To address activities related to condensate releases, the OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically New Mexico Administrative Code (NMAC) 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the OCD's *Guidelines for Remediation of Leaks, Spills and Releases*, SWG utilized the general site characteristics obtained during the completion of closure activities to determine the appropriate "ranking" for the Site. Based on

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SWG's review of Site characteristics a ranking score of 10 was determined for the Site. Consequently, the OCD's *Remediation Action Levels* for the on-Site soils are 10 milligrams per kilogram (mg/Kg) benzene, 50 mg/Kg total benzene, toluene, ethylbenzene and xylenes (BTEX), and 1,000 mg/Kg total petroleum hydrocarbons (TPH).

Seven (7) soil borings were advanced at the Site in the vicinity of the treatment equipment, storage tanks, evaporation ponds and related appurtenances. Based on the analytical results, benzene, total BTEX and/or TPH concentrations were not identified in the on-site soils during investigation activities above the OCD's *Remediation Action Levels*.

coordinated USA Environment. LP (USA) the cleaning. removal. and disposal/recycling of the separator system and associated evaporation pond liners, and Site restoration activities. Prior to the initiation of closure activities, waste characterization of vessel contents was performed by Envirotech, Inc. A total of ten (10) steel storage tanks and associated appurtenances were cleaned and removed from the Site during closure activities. The only storage tank remaining on-site is the used oil tank at the northeast corner of the property. This tank is not part of the separator facility, and remains in-use for temporary storage of used lubrication oil prior to off-site recycling. Subsequent to the removal of solids and liquids from the evaporation ponds utilizing a vacuum truck and power washer, each of the liners were removed and either recycled or disposed off-site.

The contents recovered during the closure of the storage tanks, vessels and related equipment (liquids, tank bottoms, and wash water) and solids/liquids removed from the pond liners were disposed at the Envirotech, Inc. land farm for treatment.

The concrete containment walls associated with the former storage tanks and treatment equipment were visually assessed and found to be free of hydrocarbon staining. Therefore, subsequent to the destruction utilizing on-site equipment, the resulting concrete rubble was placed on the floor of the north pond prior to site grading activities. The berms surrounding the evaporation ponds were then razed, returning the site to approximate natural grade. The Site was then hydro-seeded utilizing a blend of native seeds on September 9, 2010.

During the completion of closure activities, petroleum hydrocarbon stained soil was observed in the vicinity of storage tanks 1-NT, 2-NT, and 3-NT. In total, an estimated 100 cubic yards of soil and gravel were excavated and placed on 6-mil plastic sheeting on the concrete driveway. One (1) composite soil samples was subsequently collected from the stockpiled soils to characterize the soils for on-site reuse or off-site disposal. The soil sample collected from the stockpiled soil did not exhibit benzene, total BTEX and/or TPH concentrations above the applicable OCD *Remediation Action Levels*; therefore, the soils were reused/spread on-site.

Four (4) discrete confirmation soil samples were collected from the floor of the evaporation pond (S-SW-1, S-NW-1, N-SW-1 and N-NE-1), and two (2) discrete confirmation soil samples (Sump Conf-1 and Tanks 1,2 Conf) were collected from the floor of the excavation in the vicinity of the former sump and storage tanks 1-NT, 2-NT, and 3-NT. Based on the analytical results, benzene, total BTEX and/or TPH concentrations were not identified in the on-site soils during confirmation sampling activities above the OCD's *Remediation Action Levels*.

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2.0 INTRODUCTION

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2.1 Site Description & Background

Prior to decommissioning and closure, the Site consisted of approximately two (2) acres of security-fenced land developed with two (2) evaporation ponds, eleven (11) steel storage tanks, four (4) open-top separator boxes, two (2) heater/separators, and a concrete drive connecting two of the three access gates. The land upon which this facility resides is currently leased from the United States BLM. The Site is located off Arizona Road (CR 4900) (N 36° 44' 08.04", W 107° 57' 31.70") in Section 11, Township 29N and Range 11W in San Juan County, New Mexico.

El Paso Natural Gas (EPNG) formerly operated this Site and installed the first lined pond (south pond) in 1987 to replace an evaporation pond originally constructed in the 1950s, and believed to occupy the same location. The north lined pond was installed in 1996 to augment the south pond. Potential leaks at the south pond were identified in 1994 and 1995. Repairs were documented in 1995, subsequent to a failed vacuum test. Inspections of the pond liners in 1998 found no compromises of the north pond liner, however, one puncture and two small tears were identified in the south pond liner, which were repaired the same month. The north pond liner was repaired in 2002, and a new liner was apparently installed in the south pond at this time.

Facility operations and use of the North and South Ponds was discontinued prior to acquisition of the facility from GulfTerra during September 2004. Facility use has since been limited to the temporary storage of used oil in a steel storage tank which remains in use on the northeast portion of the facility.

A topographic map is included as Figure 1, and an aerial photograph of the Site vicinity is included as Figure 2 of Appendix A.

2.2 Scope of Work Objective

The objectives of the closure activities completed at the Site were 1.) to remove the separation equipment, evaporation ponds and associated treatment and hydrocarbon recovery equipment; 2.) evaluate the presence of petroleum hydrocarbons in the onsite soil and groundwater, if encountered; and, 3.) restore the Site to natural grade and vegetation.

2.3 Standard of Care & Limitations

The findings and recommendations contained in this report represent SWG's professional opinions based upon information derived from the on-Site activities and other services performed under this scope of work and were arrived at in accordance with currently acceptable professional standards. The findings were based upon analytical results provided by an independent laboratory. Evaluations of the geologic/hydrogeologic conditions at the Site for the purpose of this investigation are made from a limited number of available data points (i.e. soil borings), and Site-wide subsurface conditions may vary from these data points. SWG makes no warranties, express or implied, as to the services performed hereunder. Additionally, SWG does not warrant the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties).



This report is based upon a specific scope of work requested by Enterprise. The agreement between SWG and Enterprise outlines the scope of work, and only those tasks specifically authorized by that agreement or outlined in this report were performed. This report has been prepared for the intended use of Enterprise and their subsidiaries, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and SWG.

3.0 SITE CHARACTERIZATION

3.1 Geology & Hydrogeology

According to the New Mexico Bureau of Geology and Mineral Resource (Geologic Map of New Mexico 2003), the Site overlies the Nacimiento geologic formation. The Nacimiento geologic formation is characterized as very coarse sandstone inter-layered with relatively impermeable shale and mudstone. The Paleocene-age Nacimiento Group includes the Puerco and Torrejon Formations. The general lithology encountered at the Site consists of brown silty sands and silty clays from the ground surface to 20 feet bgs.

The major aquifer underlying the Site vicinity is listed as the Colorado Plateaus Aquifer, which is made up of four smaller aquifers, the Uinta-Animas, the Mesa Verde, the Dakota-Glen, and the Coconino-De Chelly. The general composition of the aquifers are moderately to well-consolidated sedimentary rocks of an age ranging from Permian to Tertiary. Each aquifer is separated from the others by an impermeable confining unit. Two of the confining units are completely impermeable and cover the entire area of the aquifers. The other two confining units are less extensive and are thinner. These units allow water to flow between the principal aquifers. There are countless streams, rivers, and lakes that overlay the Colorado Plateaus Aquifers. The surface water bodies in this region provide a place for the aquifers to discharge. Some of the high altitude rivers and lakes may also provide recharge.

The initial groundwater-bearing unit (GWBU) at the Site was encountered at a depth of >70 feet bgs during the completion of investigation and on-going abatement action activities adjacent to the west of the Site, at the former EPNG flare pit. Groundwater flow direction of the initial shallow, unconfined GWBU is likely toward the nearest down-gradient water body (lakes, creeks, rivers) and can likely be approximated by observing the surface topography. Using this assumption, the groundwater flow direction at the Site is likely to the south-southwest.

3.2 Land Use & Classification

Land use was determined by evaluation of existing land use of the Site and the land that borders the Site. The Site borders existing natural gas processing and gathering equipment to the south, and an electrical substation to the southeast. The adjacent land to the north consists predominantly of rangeland occasioned with oil & gas production and gathering sites. Due to the few remaining appurtenances at the facility, and the use of adjacent lands, the current land use remains commercial/industrial.

3.3 Site Ranking



The Site is subject to regulatory oversight by the OCD. To address activities related to condensate releases, the OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the OCD's *Guidelines for Remediation of Leaks*. *Spills and Releases*, SWG utilized the general site characteristics obtained during the completion of closure activities to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Rankin	Ranking Criteria								
	<50 feet	20							
Depth to Groundwater	50 to 99 feet	10	10						
	>100 feet	0							
Wellhead Protection Area • <1,000 feet from a water	Yes	20							
source, or; <200 feet from private domestic water source.	No	Ο	0						
	<200 feet	20							
Distance to Surface Water	200 to 1,000 feet	10	0						
Body	>1,000 feet	0							
Total Rar	10								

Based on SWG's review of Site characteristics a ranking score of 10 was determined for the Site in accordance with the *Guidelines for Remediation of Leaks, Spills and Releases.* Consequently, the OCD's *Remediation Action Levels* for the on-Site soils are 10 mg/Kg benzene, 50 mg/Kg total BTEX, and 1,000 mg/Kg TPH.

4.0 SITE INVESTIGATION

4.1 Soil Borings

SWG's field investigation activities were conducted on May 26, 2010 by B. Chris Mitchell, a SWG environmental professional. As part of the approved scope of work, a total of seven (7) soil borings were advanced at the Site in the vicinity of the treatment equipment, storage tanks, evaporation ponds and related appurtenances.

Soil boring B-1 was advanced in the vicinity of the heater/separators and sump, outside of the concrete retaining/containment wall. Soil boring B-2 was advanced near emulsion tanks #T-1144 and #421. Soil boring B-3 was advanced on the northern portion of the Site, topographically up-gradient of the north evaporation pond. Soil boring B-4 was advanced on the west-central portion of the Site, topographically down-gradient of the north evaporation pond. Soil boring B-5 was advanced on the central portion of the Site, topographically down-gradient of the north evaporation pond. Soil boring B-5 was advanced on the central portion of the Site, topographically down-gradient of the north evaporation pond and the emulsion tanks. Soil boring B-6 was advanced on the southwestern portion of the Site, topographically down-gradient of the south evaporation pond, and boring B-7 was adjacent along the southern boundary of the Site, topographically down-gradient of the south evaporation pond and hydrocarbon storage tanks.

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Figure 3 is a Site Plan that indicates the approximate location of the soil borings in relation to current and former pertinent structures and land features (Appendix A).

Soil borings B-1 through B-7 were advanced using a direct-push Geoprobe® drilling rig under the supervision of a New Mexico Office of the State Engineer-licensed driller. Soil samples were collected continuously to the termination depth of each soil boring. Soil samples were observed to document soil lithology, color, moisture content and visual and olfactory evidence of petroleum hydrocarbons. Upon retrieval of soils from the borehole, each soil sample was immediately divided into portions designated for field screening or laboratory analysis. Field headspace analysis was conducted by placing the portion of the soil sample designated for field screening into a plastic Ziplock® bag. The plastic bag was sealed and then placed in a warm area to promote volatilization. The air above the sample, the headspace, was then evaluated using a photoionization detector (PID) capable of detecting volatile organic compounds (VOCs). The PID was calibrated utilizing an isobutylene standard prior to use in the field.

During the advancement of each soil boring, an on-Site geoscientist documented the lithology encountered and constructed a continuous profile of the soil column from the surface to the soil boring terminus. Soil samples from each soil boring location were visually inspected and classified in the field. The lithology encountered during the advancement of the soil borings was similar across the site, consisting of brown silty sands and silty clays extending from the surface to the terminus of the borings at 20 feet below ground surface (bgs). Soil boring B-4 was the lone exception, as sandstone was encountered at a depth of 12 feet bgs, resulting in the termination of the soil boring at that depth.

Petroleum hydrocarbon odors were not detected in the soil samples collected from soil borings B-2 through B-7. A slight hydrocarbon odor was observed in the soil samples collected at an approximate depth of 9 to 12 feet bgs at soil boring B-1. PID readings ranging from below the instruments detection limit to 21 parts per million (ppm) were detected in the soil samples collected from the soil borings. The highest PID reading was observed in the soil sample collected from a depth of 11 to 12 feet bgs in soil boring B-1. Field screening results are presented on the soil boring logs included in Appendix B.

4.2 Investigation Sampling Program

4.2.1 Soil Sampling Program

SWG's soil sampling program involved submitting one (1) soil sample from each soil boring for laboratory analysis. Soil samples were collected from the zone exhibiting the highest PID reading, from a change in lithology, or from the bottom of the soil boring, based on the field professional's judgment.

Soil samples were collected and placed in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to Hall Environmental Analytical Laboratories, Inc.'s (HEAL) analytical laboratory in Albuquerque, NM for normal turnaround.

4.2.2 Groundwater Sampling Program

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Groundwater was not encountered during the completion of Site investigation activities. Site observations and supporting confirmation soil sampling analytical data obtained during the removal of the North and South Ponds do not indicate that historical facility operations have affected underlying groundwater.

4.3 Laboratory Analytical Program

The soil samples collected from the soil borings were analyzed for TPH GRO/DRO utilizing EPA method SW-846 #8015B, and BTEX utilizing EPA method SW-846 #8021B. Laboratory results are summarized in Table 1, included in Appendix C. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix D.

4.4 Investigation Results

In accordance with the *Guidelines for Remediation of Leaks, Spills and Releases,* a ranking score of 10 was determined for the Site. Consequently, the OCD's *Remediation Action Levels* for the on-Site soils are 10 mg/Kg benzene, 50 mg/Kg total BTEX, and 1,000 mg/Kg TPH.

Based on the analytical results, benzene, total BTEX and/or TPH concentrations were not identified in the on-site soils during investigation activities above the OCD's *Remediation Action Levels.*

Soil sample intervals are presented with the soil sample analytical results (Table 1) in Appendix C and are provided on the soil boring logs included in Appendix B.

5.0 FACILITY CLOSURE

5.1 Plant Decommissioning

USA coordinated the cleaning, removal, and disposal/recycling of the separator system and associated evaporation pond liners, and Site restoration activities. These activities were performed under the direction of Mr. Kyle Summers, a SWG environmental professional. Photographic documentation is included in Appendix E.

Prior to the initiation of closure activities, waste characterization of vessel contents was performed by Envirotech, Inc. Subsequent to lock-out/tag-out of all site utilities by Enterprise personnel and subcontractors, a vacuum truck and power washer were utilized to remove vessel contents and rinse the interior finishes. An excavator, boom truck, man lift, and haul trucks were utilized to facilitate the removal of the tanks/vessels and associated piping from the Site. A total of ten (10) steel storage tanks and associated appurtenances were cleaned and removed from the Site during closure activities. The only storage tank remaining on-site is the used oil tank at the northeast corner of the property. This tank is not part of the separator facility, and remains in-use for temporary storage of used lubrication oil prior to off-site recycling. Three (3) of the steel storage tanks were transported to an Enterprise lay-down yard for potential future re-use, while the remaining tanks, vessels and related equipment were disposed by a scrap metal recycler.



Subsequent to the removal of solids and liquids from the evaporation ponds utilizing a vacuum truck and power washer, each of the liners were removed and either recycled or disposed off-site. Three (3) liners (40-mil, 20-mil, 10-mil) and two felt beds were present on the southern pond, while two (2) liners (40-mil and 20-mil), a felt bed and high density polyethylene (HDPE) webbing were present on the northern pond. The top-most or "primary" liners on both ponds were steam-cleaned prior to removal to allow recycling. The HDPE webbing was also recycled. The remaining liners were brushed free of solids and, along with the felt material, were properly disposed of at the Waste Management, Inc. San Juan Regional Landfill.

The contents recovered during the closure of the storage tanks, vessels and related equipment (liquids, tank bottoms, and wash water) and solids/liquids removed from the pond liners were disposed at the Envirotech, Inc. land farm for treatment.

The concrete containment walls associated with the former storage tanks and treatment equipment were visually assessed and found to be free of hydrocarbon staining. Therefore, subsequent to the destruction utilizing on-site equipment, the resulting concrete rubble was placed on the floor of the north pond prior to site grading activities. The berms surrounding the evaporation ponds were then razed, returning the site to approximate natural grade. The Site was then hydro-seeded utilizing a blend of native seeds on September 9, 2010.

5.2 Excavation of Affected Soils

During the completion of closure activities, petroleum hydrocarbon stained soil was observed in the vicinity of storage tanks 1-NT, 2-NT, and 3-NT. In total, an estimated 60 cubic yards of soil and gravel were excavated and placed on 6-mil plastic sheeting on the concrete driveway. One (1) composite soil samples was subsequently collected from the stockpiled soils to characterize the soils for on-site reuse or off-site disposal. The soil sample collected from the stockpiled soil did not exhibit benzene, total BTEX and/or TPH concentrations above the applicable OCD *Remediation Action Levels*; therefore, the soils were reused/spread on-site.

5.3 Confirmation Sampling Program

SWG's confirmation soil sampling program consisted of the following:

- Four (4) discrete confirmation soil samples were collected from the floor of the evaporation ponds (S-SW-1, S-NW-1, N-SW-1 and N-NE-1) based on visual, olfactory and/or PID evidence of impairment.
- Two (2) discrete confirmation soil samples (Sump Conf-1 and Tanks 1,2 Conf) were collected from the floor of the excavation in the vicinity of the former sump and storage tanks 1-NT, 2-NT, and 3-NT subsequent to the removal of the petroleum hydrocarbon stained soils.

Soil samples were collected and placed in laboratory prepared glassware and placed on ice in a cooler, which was secured with a custody seal. The sample cooler and completed chain-of-custody forms were relinquished to HEAL's analytical laboratory in Albuquerque, NM for normal turnaround.



5.4 Laboratory Analytical Program

The soil samples collected from the soil borings were analyzed for TPH GRO/DRO utilizing EPA method SW-846 #8015B, and BTEX utilizing EPA method SW-846 #8021B. Laboratory results are summarized in Table 1, included in Appendix C. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix D.

5.5 Confirmation Sampling Results

In accordance with the *Guidelines for Remediation of Leaks. Spills and Releases.* a ranking score of 10 was determined for the Site. Consequently, the OCD's *Remediation Action Levels* for the on-Site soils are 10 mg/Kg benzene. 50 mg/Kg total BTEX, and 1,000 mg/Kg TPH.

Based on the analytical results, benzene, total BTEX and/or TPH concentrations were not identified in the on-site soils during confirmation sampling activities above the OCD's *Remediation Action Levels*.

Soil sample analytical results (Table 1) are presented in Appendix C.

6.0 CONCLUSIONS

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The Enterprise Kutz Separator and Hydrocarbon Recovery Plant consists of approximately two (2) acres of security-fenced land historically developed with two (2) evaporation ponds, eleven (11) steel storage tanks, four (4) open-top separator boxes, two (2) heater/separators, and a concrete drive connecting two of the three access gates. The Site is located off Arizona Road (CR 4900) in Section 11, Township 29N and Range 11W in San Juan County, New Mexico.

EPNG formerly operated this Site and installed the first lined pond (south pond) in 1987 to replace an evaporation pond originally constructed in the 1950s, and believed to occupy the same location. The north lined pond was installed in 1996 to augment the south pond. In December 2004, operational control of the facility was transferred from EPNG to Enterprise. The ponds were subsequently taken out of service, and operations at the site were limited to the temporary storage of used oil in a steel storage tank which remains in use on the northeast portion of the facility.

The objectives of the closure activities completed at the Site were 1.) to remove the separation equipment, evaporation ponds and associated treatment and hydrocarbon recovery equipment; 2.) evaluate the presence of petroleum hydrocarbons in the onsite soil and groundwater, if encountered; and, 3.) restore the Site to natural grade and vegetation.

The Site is subject to regulatory oversight by the OCD. To address activities related to condensate releases, the OCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the OCD rules, specifically NMAC 19.15.30 Remediation. These guidance documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

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Seven (7) soil borings were advanced at the Site in the vicinity of the treatment equipment, storage tanks, evaporation ponds and related appurtenances. Based on the analytical results, benzene, total BTEX and/or TPH concentrations were not identified in the on-site soils during investigation activities above the OCD's *Remediation Action Levels*.

USA coordinated the cleaning, removal, and disposal/recycling of the separator system and associated evaporation pond liners, and Site restoration activities. Prior to the initiation of closure activities, waste characterization of vessel contents was performed by Envirotech, Inc. A total of ten (10) steel storage tanks and associated appurtenances were cleaned and removed from the Site during closure activities. The only storage tank remaining on-site is the used oil tank at the northeast corner of the property. This tank is not part of the separator facility, and remains in-use for temporary storage of used lubrication oil prior to off-site recycling. Subsequent to the removal of solids and liquids from the evaporation ponds utilizing a vacuum truck and power washer, each of the liners were removed and either recycled or disposed off-site.

The contents recovered during the closure of the storage tanks, vessels and related equipment (liquids, tank bottoms, and wash water) and solids/liquids removed from the pond liners were disposed at the Envirotech, Inc. land farm for treatment.

The concrete containment walls associated with the former storage tanks and treatment equipment were visually assessed and found to be free of hydrocarbon staining. Therefore, subsequent to the destruction utilizing on-site equipment, the resulting concrete rubble was placed on the floor of the north pond prior to site grading activities. The berms surrounding the evaporation ponds were then razed, returning the site to approximate natural grade. The Site was then hydro-seeded utilizing a blend of native seeds on September 9, 2010.

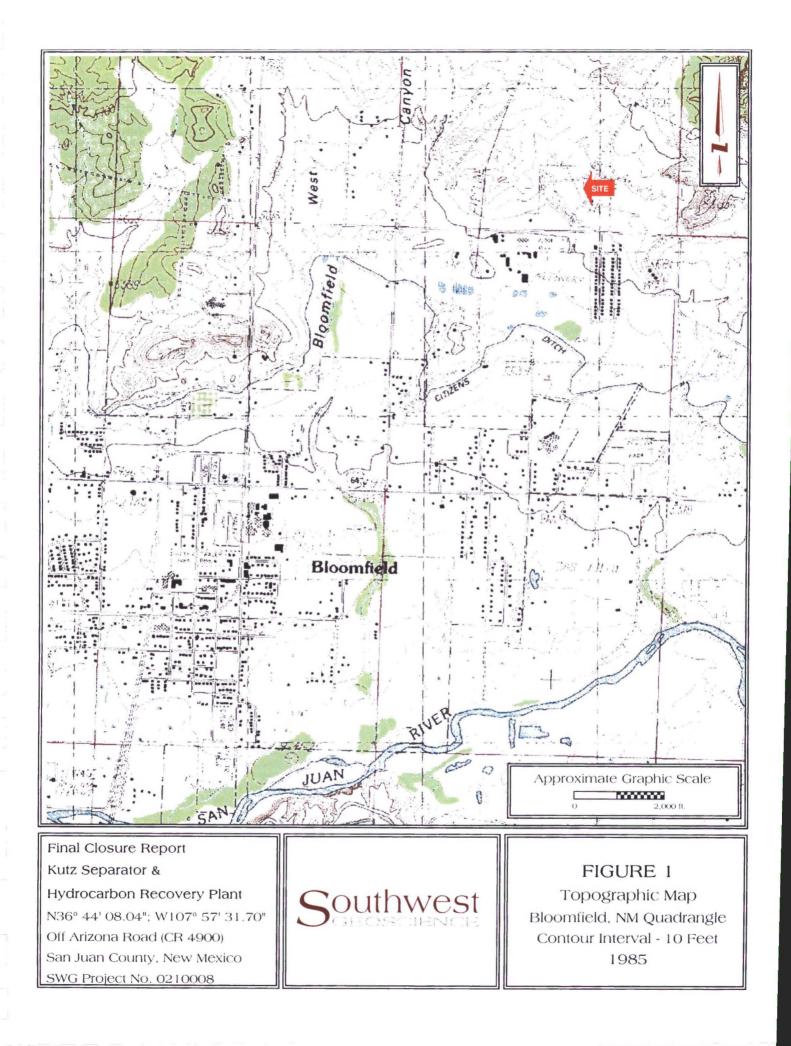
During the completion of closure activities, petroleum hydrocarbon stained soil was observed in the vicinity of storage tanks 1-NT, 2-NT, and 3-NT. In total, an estimated 100 cubic yards of soil and gravel were excavated and placed on 6-mil plastic sheeting on the concrete driveway. One (1) composite soil samples was subsequently collected from the stockpiled soils to characterize the soils for on-site reuse or off-site disposal. The soil sample collected from the stockpiled soil did not exhibit benzene, total BTEX and/or TPH concentrations above the applicable OCD *Remediation Action Levels*; therefore, the soils were reused/spread on-site.

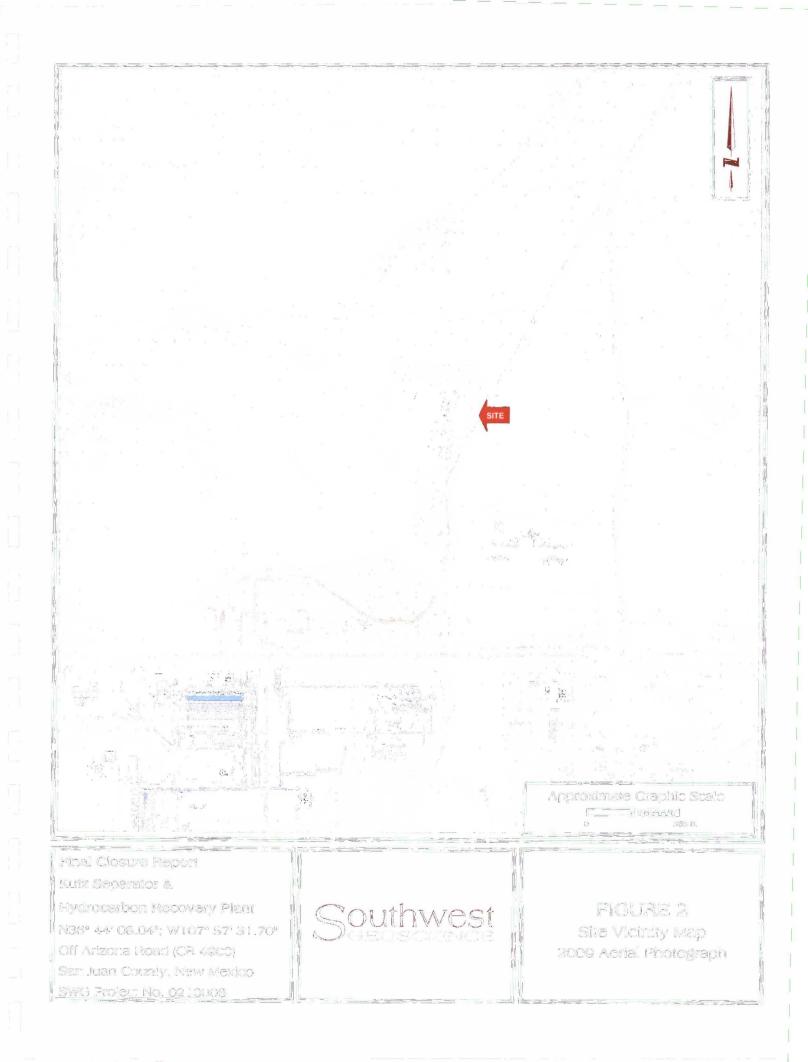
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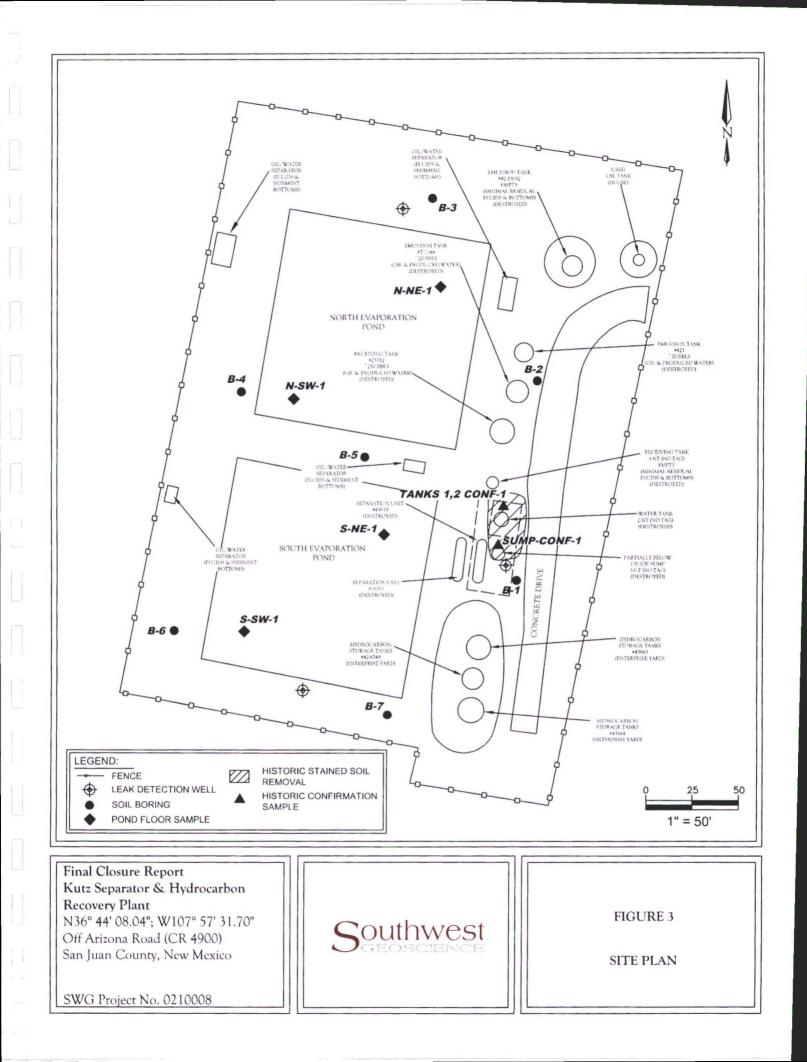
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concentrations were not identified in the on-site soils during confirmation sampling activities above the OCD's *Remediation Action Levels*.







Client:Enterprise Field Services, LLC Project Name:Kutz Separator Project Location: San Juan County, New Mexico Project Manager: Klyle Summers DRILLING & SAMPLING INFORMATION Date Started:5.26.10 Date Completed:5.26.10 Drilling Company:Earthworx Environmental Services, LLC	Drawn By:RDH
Driller: Louis Trujillo Geologist: B. Chris Mitchell Well Diam: Boring Method: Geoprobe Screen Size: Bore Hole Dia: 3-Inch Screen Length: Sampler OD: 3-Inch Casing Length: BORING METHOD SAMPLER TYPE	N/A N/A N/A N/A WATER DEPTH
SILTY SAND, Brown, Dry, No Odor SILTY CLAY, Gray, Dry, Slight Hydrocarbon Odor SILTY SAND, Brown, Dry, No Odor SILTY CLAY, Gray, Dry, No Odor Bottom of Boring @ 20'	
NOTE: This log is not to be used outside of the original report.	Southwest Second

Date Completed: 5.26.10 Drilling Company: Earthworx Environmental Services, LLC	Project #: 0210008 Drawn By: RDH Approved By: KS
CEA - CONTINUOUS FLIGHT AUGERS SS - DRIVEN SPLIT SPOON	N/A
SILTY CLAY, Brown, Dry, No Odor SILTY SAND, Brown, Dry, No Odor SILTY CLAY, Brown, Dry, No Odor SILTY SAND, Brown, Dry, No Odor Bottom of Boring @ 20'	
NOTE: This log is not to be used outside of the original report.	Southwest

Client: Enterprise Field Services, LLC Project Name: Kutz Separator Project Location: San Juan County, New Mexico Project Manager: Klyle Summers DRILLING & SAMPLING INFORMATION Date Started: 5.26.10 Date Completed: 5.26.10 Date Completed: 5.26.10 Drilling Company: Earthworx Environmental Services, LLC Driller: Louis Trujillo Geologist: B, Chris Mitchell Boring Method: Geoprobe Sampler OD: 3-Inch Sampler OD: 3-Inch Screen Length: Screen Length: Boring Method: Geoprobe RA-HOLOW STEM ALGERS SS - DRIVEN SPLIT SPOON GP-GEOPROBE ST - PRESSED SHELBY TUBE AR - AIR ROTARY ST - PRESSED SHELBY TUBE	Soil Bo Project Drawr Appro N/A N/A N/A N/A N/A N/A	Depth	umbe	er:0 R KS	210 DH 5	300	3	
SOIL CLASSIFICATION SURFACE ELEVATION:	ratum epth	Depth Scale	o.	Sample Interval	% Recovery	roundv	1 CII-J/CI	
SILTY SAND, Brown, Dry, No Odor SILTY CLAY, Brown, Dry, No Odor SILTY SAND, Brown, Dry, No Odor Bottom of Boring @ 20'			819					
					5 8 96 (* 1715)			Couthwest

ject Name:Kutz Separator ject Location: <u>San Juan County, New Mexico</u> ject Manager: <u>_Klyle Summers</u>		SOI	L	B	O	RII	NG LOG
DRILLING & SAMPLING INFORMATION	Soil P	oring Nu	mher				B-4
e Started: 5.26.10							
e Completed: 5.26.10							
ling Company: Earthworx Environmental Services, LLC							
ler:Louis Trujillo		nea Bj.					
ologist:B. Chris MitchellWell Diam:				T			
ing Method: <u>Geoprobe</u> Screen Size:							
e Hole Dia: <u>3-Inch</u> Screen Length:							
BORING METHOD SAMPLER TYPE Casing Length: BORING METHOD SAMPLER TYPE CB - FIVE FOOT CORE BARREL GROUNDV IEA - CONTINUOUS FLIGHT AUGERS CB - FIVE FOOT CORE BARREL GROUNDV GP - GEOPROBE SS - DRIVEN SPLIT SPOON Image: CB - FIVE FOOT CORE BARREL GROUNDV AR - AIR ROTARY ST - PRESSED SHELBY TUBE Image: CB - FIVE FOOT CORE BARREL Image: CB - FIVE FOOT CORE BARREL	N/A WATER I	DEPTH	Interval	, Kis	Groundwater Depth	FID/PID Readings (ppm)	BORING AND SAMPLING NOTES
SOIL CLASSIFICATION	Stratum Depth	Depth Scale Sample	No. Sample Ir	% Recovery	wpuno	R CII AI	
SURFACE ELEVATION: SILTY SAND, Brown, Dry, No Odor	<u>র্জ ন</u> গোর্যান্সা	ଘଁ ୪୦୦୦ ୪୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦୦	ž ß	*	5	E	
SAND (Cemented), Brown, Dry, No Odor			19.				
NOTE: This log is not to be used outside of the original report.						(Southwes

Client: <u>Enterprise Field Services, LLC</u> Project Name: <u>Kutz Separator</u> Project Location: <u>San Juan County, New Mexico</u> Project Manager: <u>_Klyle, Summers</u>	SOIL BORING LOG
DRILLING & SAMPLING INFORMATION Date Started: 5.26.10 Date Completed: 5.26.10	Soil Boring Number: B-5 Project #: 0210008 Drawn By: RDH Approved By: KS
Geologist: B. Chris Mitchell Well Diam: Boring Method: Geoprobe Screen Size: Bore Hole Dia: 3-Inch Screen Length: Sampler OD: 3-Inch Casing Length: BORING METHOD SAMPLER TYPE	N/A_N/A
Bottom of Boring @ 20'	
NOTE: This log is not to be used outside of the original report.	Southwest

Client: _Enterprise Field Services, LLC Project Name:Kutz Separator Project Location: <u>San Juan County, New Mexico</u> Project Manager: <u>Klyle Summers</u> DRILLING & SAMPLING INFORMATION Date Started:5.26.10 Date Completed:5.26.10	Soil B Projec Drawr	oring N ct #: n By:	Numb	er:02 	2100	08	
Drilling Company: <u>Earthworx Environmental Services, LLC</u> Driller: <u>Louis Trujillo</u>	Appro	ved B	y:	KS	-		
Geologist:B. Chris MitchellWell Diam: Boring Method:GeoprobeScreen Size: Bore Hole Dia:3-InchScreen Length: Sampler OD:3-InchCasing Length: BORING METHODSAMPLER TYPECasing Length: BORING METHODSCREEN STANDARDCASING LENGTH: BORING METHODSTANDARDCASING LENGTH: BORING METHODCASING LENGTH: BORING METHOD	N/A :	DEPTH		Sample Interval	% Recovery Croundwater Denth	FID/FID Readings (pprn)	BORING AND SAMPLING NOTES
SILTY SAND, Brown, Dry, No Odor CLAYEY SILT, Brown, Dry, No Odor SILTY SAND, Brown, Dry, No Odor Bottom of Boring @ 20'			1214				-
NOTE: This log is not to be used outside of the original report.					_		Couthwest
	1.578/X # 3007 9707	1. (* . *		n van verse verse oor	- 200 4 mi	NUM CS	JGEOSCIENCE

Client: _Enterprise Field Services, LLC Project Name:Kutz Separator Project Location: San Juan County, New Mexico Project Manager: _Klyle Summers DRILLING & SAMPLING INFORMATION Date Started:5.26.10	Soil B	oring N	lumbo	:r:			NG LOG B-7
Date Completed: 5,26,10 Drilling Company: Earthworx Environmental Services, LLC	Drawn	n By:		RDF	1		
Driller: Louis Trujillo Geologist: B. Chris Mitchell Well Diam: Boring Method: Geoprobe Screen Size: Bore Hole Dia: 3-Inch Screen Length: Sampler OD: 3-Inch Casing Length: BORING METHOD SAMPLER TYPE Casing Length: ISA - HOLLOW STEM AUGERS CB - FIVE POOT CORE BARREL GROUND GP - GEOPROME: ST - PRESSED SHELBY TUBE X AT COMPLET AR - AIR ROTARY ST - PRESSED SHELBY TUBE X AT WELL ST	N/A N/A N/A N/A WATER	DEPTH ON		ample Interval Recovery	Groundwater Depth	D Readings (ppm)	BORING AND SAMPLING NOTES
SOIL CLASSIFICATION SURFACE ELEVATION: SILTY SAND, Brown, Dry, No Odor	Stranu Stranu Bepth	Depth Scale	Sample No.	Sample % Recov	Groun	CIL4/CIL4	No Recovery 1'-4'
CLAYEY SILT with Sand, Brown, Dry, No Odor Bottom of Boring @ 20'			IR 30				No Recovery 7'-12'
	mer affectives should			LINE LONG AND	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		Southwest



		Kutz Sep			E 1 arbon Reco 1 results	very Pla	ant			
Sample I.D.	Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	Total TPH (mg/kg)
Oil	Inerals & Natu Conservation I nediation Action		10	NE	NE	NE	50			1,000
			Inve	stigative Sc	oil Borings	8、14、14、14、16、14	医甘油 第二级	, ny 1, ng n∳	in The state	2
B-1	5/26/2010	10-12	<0.050	<0.050	<0.050	<0.10	<0.25	< 5.0	91	91
B-2	5/26/2010	8-10	<0.050	<0.050	<0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
B-3	5/26/2010	18-20	< 0.050	<0.050	<0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
B-4	5/26/2010	10-12	<0.050	<0.050	< 0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
B-5	5/26/2010	18-20	<0.050	<0.050	< 0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
B-6	5/26/2010	12-14	<0.050	<0.050	<0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
B-7	5/26/2010	18-20	<0.050	<0.050	<0.050	<0.10	<0.25	< 5.0	< 10.0	<15.0
	ч ц. н к	法保守法律保守法 法法法	Evaporation	Pond Conf	firmation Sampl	es	and de trade la		and consideration of the state	e and an out of the
N-SW-1	9/1/2010	1' below pond floor	< 0.050	<0.050	<0.050	<0.10	<0.25	<2	0.0	<20.0
N-NE-1	9/1/2010	I' below pond floor	<0.050	<0.050	<0.050	<0.10	<0.25	<2	0.0	<20.0
S-SW-1	9/1/2010	I' below pond floor	<0.050	<0.050	<0.050	<0.10	<0.25	<2	0.0	<20.0
S-NE-1	9/1/2010	1' below pond floor	<0.050	<0.050	<0.050	<0.10	<0.25	2	24	24
著 医动脉 机分子 法公正	1 4 1 A A		10.000		mation Samples	1 1 12 A. A.	中心中心中 中心中		4 4 4 2 3	医黄疸外毒
Sump Conf -1	9/8/2010	4	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	11	<15.0
Tanks 1,2 Conf-1	9/8/2010	4	<0.050	<0.050	<0.050	<0.10	<0.25	<5.0	90	<95.0
Kutz Comp*	2/10/2011	5 part composite 2.5'	<0.50	< 0.50	<0.50	<1.00	<2.5	<50.0	910	910

ND=Not Detected above laboratory reporting limit

J=Indicates an estimated value between the method detection limit and the laboratory Practical Quantitation Limit

*Composite sample collected from excavated soils to evaluate for on-site reuse.



COVER LETTER

Friday, March 24, 2011

Kyle Summers Southwest GeoScience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX:

RE: Kutz Separator

Order No: 1005853

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 7 sample(s) on 5/27/10 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued June 7, 2010.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab #9425 AZ License #AZ0682 ORELAP Lab #NM100001 Texas Lab #T104704424-08-TX



4901 Hawkins NE Suite D Albuquerque, NM 87109 505.345.3975 Fax 505.345.4107 www.hallenvironmental.com

Lab Order:	1005853			Collec	tion Date:	5/26/2010	9:40:00 AM
Project:	Kutz Separator			Date	Received:	5/27/2010	
Lab ID:	1005853-01				Matrix:	SOIL	
Analyses		Result	PQL	Qual Ur	its	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE	ORGANICS					Analyst: JB
Diesel Range O	rganics (DRO)	91	10	mg	/Kg	1	6/2/2010 6:09:56 PM
Surr: DNOP		95.5	61. 7-135	%F	REC	1	6/2/2010 6:09:56 PM
EPA METHOD	8015B: GASOLINE RAI	NGE					Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	mg	/Kg	1	6/1/2010 6:34:02 PM
Surr: BFB		103	65.9-118	%R	EC	1 /	6/1/2010 6:34:02 PM
EPA METHOD	3021B: VOLATILES						Analyst: NSB
Benzene		ND	0.050	mg	/Kg	1	8/2/2010 11:53:35 PM
Toluene		ND	0.050	mg	Kg	1	6/2/2010 11:53:35 PM
Ethylbenzene		ND	0.050	mg	/Kg	1	6/2/2010 11:53:35 PM
Xylenes, Total		ND	0.10	mg	/Kg	1	6/2/2010 11:53:35 PM
Surr: 4-Bromo	fluorobenzene	96.2	64.7-120	%R	EC	1	6/2/2010 11:53:35 PM

Southwest Geoscience

CLIENT:

Date: 25-Mar-11

Client Sample ID: B-1 (10-12)

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

CLIENT: Lab Order: Project:	Southwest Geoscience 1005853 Kutz Separator	e .		Client Sample ID: Collection Date: Date Received:		5/26/2010 5/27/2010		
Lab ID: Analyses	1005853-02	Result	PQL	Matrix: Qual Units		DF	Date Analyzed	
EPA METHOD 80	15B: DIESEL RANGE O	RGANICS					Analyst: JB	
Diesel Range Org	anics (DRO)	ND	10		mg/Kg	1	6/2/2010 6:47:11 PM	
Surr: DNOP		99.2	61.7-135		%REC	1	6/2/2010 6:47:11 PM	
EPA METHOD 80	15B: GASOLINE RANGE						Analyst: NSB	
Gasoline Range C	organics (GRO)	ND	5.0		mg/Kg	1	6/3/2010 12:23:54 AM	
Surr: BFB		95.2	65.9-118		%REC	1	6/3/2010 12:23:54 AM	
EPA METHOD 80	21B: VOLATILES						Analyst: NSB	
Benzene		ND	0.050		mg/Kg	1	6/3/2010 12:23:54 AM	
Toluene		ND	0.050		mg/Kg	1	6/3/2010 12:23:54 AM	
Ethylbenzene		ND	0.050		mg/Kg	1	6/3/2010 12:23:54 AM	
Xylenes, Total		ND	0.10		mg/Kg	1	6/3/2010 12:23:54 AM	
Surr: 4-Bromoflu	uorobenzene	102	64.7-120		%REC	1	6/3/2010 12:23:54 AM	

Date: 25-Mar-11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value

J Analyte detected below quantitation limits

- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Lab Order: Project: Lab ID:	1005853 Kutz Separator 1005853-03			Collection Date Date Received Matrix		
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD	015B: DIESEL RANGE	ORGANICS				Analyst: JB
Diesel Range Or	ganics (DRO)	ND	10	mg/Kg	1	6/2/2010 8:01:12 PM
Surr: DNOP		90.0	61.7-135	%REC	1	6/2/2010 8:01:12 PM
PA METHOD 8	015B: GASOLINE RAN	NGE				Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2010 12:54:10 AM
Surr: BFB		83.4	65.9-118	%REC	1	6/3/2010 12:54:10 AM
PA METHOD 8	021B: VOLATILES					Analyst: NSB
Benzene		ND	0.050	mg/Kg	1	6/3/2010 12:54:10 AM
Toluene		ND	0.050	mg/Kg	1	6/3/2010 12:54:10 AM
Ethylbenzene		ND	0.050	mg/Kg	1	6/3/2010 12:54:10 AM
Xylenes, Total		ND	0.10	mg/Kg	1	6/3/2010 12:54:10 AM
Surr: 4-Bromo	fluorobenzene	87.4	64.7-120	%REC	1	6/3/2010 12:54:10 AM

Southwest Geoscience

CLIENT:

Date: 25-Mar-11

Client Sample ID: B-3 (18-20)

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 3 of 7

CLIENT: Lab Order:	Southwest Geoscience 1005853				nt Sample ID: llection Date:		
Project:	Kutz Separator			D	ate Received:	5/27/2010	
Lab ID:	1005853-04				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE O	RGANICS					Analyst: JB
Diesel Range O	rganics (DRO)	ND	10		mg/Kg	1	6/2/2010 8:38:12 PM
Surr: DNOP		93.8	61.7-135		%REC	1	6/2/2010 8:38:12 PM
EPA METHOD	8015B: GASOLINE RANG						Analyst: NSB
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	6/3/2010 1:24:30 AM
Surr: BFB		90.2	65.9-118		%REC	1	6/3/2010 1:24:30 AM
EPA METHOD 8	8021B: VOLATILES						Analyst: NSB
Benzene		ND	0.050		mg/Kg	1	6/3/2010 1:24:30 AM
Toluene		ND	0.050		mg/Kg	1	6/3/2010 1:24:30 AM
Ethylbenzene		ND	0.050		mg/Kg	1	6/3/2010 1:24:30 AM
Xylenes, Total		ND	0.10		mg/Kg	1	6/3/2010 1:24:30 AM
Surr: 4-Bromo	ofluorobenzene	97.7	64.7-120		%REC	1	6/3/2010 1:24:30 AM

Date: 25-Mar-11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
 - 4

Page 4 of 7

CLIENT:	Southwest Geoscience			Clien	t Sample ID:	B-5 (18-20)
Lab Order:	1005853			Collection Date:		5/26/2010	11:25:00 AM
Project:	Kutz Separator			Da	te Received:	5/27/2010	
Lab ID:	1005853-05			Matrix:		SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8015B: DIESEL RANGE O	RGANICS					Analyst: JB
Diesel Range O	rganics (DRO)	ND	10		mg/Kg	1	6/2/2010 9:15:27 PM
Surr: DNOP		93.7	61.7-135		%REC	1	6/2/2010 9:15:27 PM
EPA METHOD	8015B: GASOLINE RANGI	E					Analyst: NSE
Gasoline Range	Organics (GRO)	ND	5.0		mg/Kg	1	6/3/2010 1:54:47 AM
Surr: BFB		89.2	65.9-118		%REC	1	6/3/2010 1:54:47 AM
EPA METHOD	8021B: VOLATILES						Analyst: NSE
Benzene		ND	0.050		mg/Kg	1	6/3/2010 1:54:47 AM
Toluene		ND	0.050		mg/Kg	1	6/3/2010 1:54:47 AM
Ethylbenzene		ND	0.050		mg/Kg	1	6/3/2010 1:54:47 AM
Xylenes, Total		ND	0.10		mg/Kg	1	6/3/2010 1:54:47 AM
Surr: 4-Bromo	ofluorobenzene	96.4	64.7-120	1	%REC	1	6/3/2010 1:54:47 AM

Date: 25-Mar-11

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

5

Page 5 of 7

CLIENT: Lab Order:	Southwest Geoscience 1005853				t Sample ID: lection Date:	B-6 (12-14) 5/26/2010 11:45:00 AM		
Project:	Kutz Separator			D	ate Received:	5/27/2010		
Lab ID:	1005853-06				Matrix:	SOIL		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD 80	15B: DIESEL RANGE OF	RGANICS					Analyst: JB	
Diesel Range Orga	anics (DRO)	ND	10		mg/Kg	1	6/2/2010 9:52:28 PM	
Surr: DNOP		90.5	61.7-135		%REC	1	6/2/2010 9:52:28 PM	
EPA METHOD 80	15B: GASOLINE RANGE						Analyst: NSB	
Gasoline Range O	rganics (GRO)	ND	5.0		mg/Kg	1	6/3/2010 2:25:01 AM	
Surr: BFB		83.2	65.9-118		%REC	1	6/3/2010 2:25:01 AM	
EPA METHOD 80	21B: VOLATILES						Analyst: NSB	
Benzene		ND	0.050		mg/Kg	1	6/3/2010 2:25:01 AM	
Toluene		ND	0.050		mg/Kg	1	6/3/2010 2:25:01 AM	
Ethylbenzene		ND	0.050		mg/Kg	1	6/3/2010 2:25:01 AM	
Xylenes, Total		ND	0.10		mg/Kg	1	6/3/2010 2:25:01 AM	
Surr: 4-Bromoflu	orobenzene	88.0	64.7-120		%REC	1	6/3/2010 2:25:01 AM	

Date: 25-Mar-11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits 6

CLIENT:	Southwest Geoscience			Clien	t Sample ID:	B-7 (18-20)		
Lab Order:	1005853			Col	lection Date:	5/26/2010 12:15:00 PM			
Project:	Kutz Separator			D	ate Received:	5/27/2010			
Lab ID:	1005853-07				Matrix:	SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD 80	15B: DIESEL RANGE O	RGANICS	and the second				Analyst: JB		
Diesel Range Orga	anics (DRO)	ND	10		mg/Kg	1	6/2/2010 10:28:58 PM		
Surr: DNOP		90.2	61.7-135		%REC	1	6/2/2010 10:28:58 PM		
EPA METHOD 80	15B: GASOLINE RANGE						Analyst: NSB		
Gasoline Range O	Irganics (GRO)	ND	5.0		mg/Kg	1	6/3/2010 2:55:14 AM		
Surr: BFB		91.0	65.9-118		%REC	1	6/3/2010 2:55:14 AM		
EPA METHOD 80	21B: VOLATILES						Analyst: NSB		
Benzene		ND	0.050		mg/Kg	1	6/3/2010 2:55:14 AM		
Toluene		ND	0.050		mg/Kg	1	6/3/2010 2:55:14 AM		
Ethylbenzene		ND	0.050		mg/Kg	1	6/3/2010 2:55:14 AM		
Xylenes, Total		ND	0.10		mg/Kg	1	6/3/2010 2:55:14 AM		
Surr: 4-Bromofiu	lorobenzene	99.1	64.7-120		%REC	1	6/3/2010 2:55:14 AM		

Date: 25-Mar-11

Hall Environmental Analysis Laboratory, Inc.

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

7

Page 7 of 7

QA/QC SUMMARY REPORT

Client: Project:	Southwest C Kutz Separa									Work	Order:	1005853
Analyte	•	Result	Units	PQL	SPK Va	SPK ref	%Rec L	owLimit H	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Sample ID: MB	Method 8015B: [-22462	Diesel Range	Organics MBLK				Batch ID:	22462	Analysi	s Date:	6/2/2010	9:31:18 AN
Diesel Range Org Motor Oll Range		ND ND	mg/Kg mg/Kg	10 50								
Sample ID: LCS		NO	LCS	00			Batch ID:	22462	Analysi	s Date:	6/2/2010 1	0:07:15 AN
Diesel Range Org		46.50	mg/Kg LCSD	10	50	0	93.0 Batch ID:	64.6 22462	116 Analysi	s Dete:	6/2/2010 1	0.43.44 AM
Sample ID: LCS Diesel Range Org		45.31	mg/Kg	10	50	0	90.6	64.6	116	2.59	17.4	0.40.44 /11
				10		U	00.0	04.0	110	2.00		
	Method 8015B: G	Basoline Rar					Potob ID:	22450	Analysi	Data	6/1/2010	7:31:55 PM
Sample ID: 100		0.5.7.1	MSD	5.0	05	0.47	Batch ID:	22459				1.31.35 PN
Gasoline Range C Sample ID: MB-		25.74	mg/Kg MBLK	5.0	25	2.17	94.3 Batch ID:	69.5 22459	120 Analysi	0.928 8 Date:	11.6 6/1/2010 /	8:29:42 PM
		ND		5.0			Daton 10.	22400	7 mary 5	Date.	0/112010	
Gasoline Range C Sample ID: LCS		ND	mg/Kg LCS	5.0			Batch ID:	22459	Analysi	s Date:	6/1/2010 8	3:00:49 PM
Gasoline Range C		25.34	mg/Kg	5.0	25	0	101	77.7	135			
Sample ID: 1005	•	20.04	MS	5.0	25	U	Batch ID:	22459	Analysi	s Date:	6/1/2010 7	7:02:58 PM
Gasoline Range C		25.98	mg/Kg	5.0	25	2.17	95.2	69.5	120			
			inging	0.0	20		00.2	00.0	120			
Method: EPA N Sample ID: 1005	Method 8021B: V	olatiles	MSD				Batch ID:	22459	Analysis	Date	6/5/2010 12	-50-39 PM
		4 995		0.10		0		67.9	135	1.76	28	
Methyl tert-butyl e Benzene	(IVI) BE)	1.335	mg/Kg mg/Kg	0.10 0.050	1 1	0	133 86.9	78.8	132	2.57	28	
Toluene		0.8859	mg/Kg	0.050	1	0	88.6	78.9	112	0.0451	19	
Ethylbenzene		0.9352	mg/Kg	0.050	1	0	93.5	69.3	125	0.862	10	
Xylenes, Total		2.880	mg/Kg	0.10	3	0	96.0	73	128	1.29	13	
Sample ID: MB-2	22459	2.000	MBLK	0.10	0	U	Batch ID:	22459	Analysis			:54:04 AM
Methyl tert-butyl el		ND	mg/Kg	0.10								
Benzene		ND	mg/Kg	0.050								
Toluene		ND	mg/Kg	0.050								
Ethylbenzene		ND	mg/Kg	0.050								
Xylenes, Total		ND	mg/Kg	0.10								
Sample ID: LCS-	22459		LCS				Batch ID:	22459	Analysis	Date:	6/5/2010 6	:23:49 AM
Methyl tert-butyl et	her (MTBE)	1.415	mg/Kg	0.10	1	0	141	67.9	135			S
Benzene		0.9206	mg/Kg	0.050	1	0	92.1	78.8	132			
Toluene		0.8823	mg/Kg	0.050	1	0	88.2	78.9	112			
Ethylbenzene		0.9505	mg/Kg	0.050	1	0	95.1	69.3	125			
Xylenes, Total		2.887	mg/Kg	0.10	3	0	96.2	73	128			
Sample ID: 1005	853-01A MS		MS				Batch ID:	22459	Analysis	Date:	6/5/2010 5	:23:10 AM
Methyl tert-butyl et	her (MTBE)	1.311	mg/Kg	0.10	1	0	131	67.9	135			
Benzene	12	0.8916	mg/Kg	0.050	1	0	89.2	78.8	132			
Toluene		0.8863	mg/Kg	0.050	1	0	88.6	78.9	112			
Ethylbenzene		0.9433	mg/Kg	0.050	1	0	94.3	69.3	125			
Xylenes, Total		2.844	mg/Kg	0.10	3	0	94.8	73	128			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

H Holding times for preparation or analysis exceeded

NC Non-Chlorinated

R RPD outside accepted recovery limits

Page 1



COVER LETTER

Tuesday, January 11, 2011

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX

RE: Kutz Seperator

Order No.: 1009209

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 5 sample(s) on 9/3/2010 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued September 14, 2010.

No determination of compounds below these (denoted by the ND or < sign) has been made.

Reporting limits are determined by EPA methodology.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

e de

Andy Freeman, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.hallenvironmental.com

CLIENT:		Client Sample ID: N-SW-1							
Lab Order:	1009209	Collection Date: 9/1/2010 3:00:00 PM							
Project:	Kutz Seperator			D	ate Received:	9/3/2010			
Lab ID:	1009209-01								
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	8021B: VOLATILES						Analyst: NSB		
Benzene		ND	0.050		mg/Kg	1	9/8/2010 4:54:52 PM		
Toluene		ND	0.050		mg/Kg	1	9/8/2010 4:54:52 PM		
Ethylbenzene		ND	0.050		mg/Kg	1	9/8/2010 4:54:52 PM		
Xylenes, Total		ND	0.10		mg/Kg	1	9/8/2010 4:54:52 PM		
Surr: 4-Brom	ofluorobenzene	94.9	88.9-151		%REC	1	9/8/2010 4:54:52 PM		
EPA METHOD	418.1: TPH						Analyst: JB		
Petroleum Hydro	ocarbons, TR	ND	20		mg/Kg	1	9/9/2010		

Date: 11-Jan-11

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

MCL Maximum Contaminant Level

- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

CLIENT:	Southwest Geoscience				t Sample ID:		
Lab Order:	1009209			Col	lection Date:	9/1/2010 3	3:10:00 PM
Project:	Kutz Seperator			Da	te Received:	9/3/2010	
Lab ID:	1009209-02				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD	8021B: VOLATILES			and the second second			Analyst: NSE
Benzene		ND	0.050		mg/Kg	1	9/8/2010 5:25:15 PM
Toluene		ND	0.050		mg/Kg	1	9/8/2010 5:25:15 PM
Ethylbenzene		ND	0.050		mg/Kg	1	9/8/2010 5:25:15 PM
Xylenes, Total		ND	0.10		mg/Kg	1	9/8/2010 5:25:15 PM
Surr: 4-Brom	ofluorobenzene	105	88.9-151		%REC	1	9/8/2010 5:25:15 PM
EPA METHOD	418.1: TPH						Analyst: JB
Petroleum Hydro	ocarbons, TR	ND	20	1	mg/Kg	1	9/9/2010

Date: 11-Jan-11

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

14

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
 - 2

CLIENT: Lab Order:	Southwest Geoscience				t Sample ID: llection Date:		3:30:00 PM	
Project:	Kutz Seperator			D	ate Received:	9/3/2010		
Lab ID:	1009209-03				Matrix:	SOIL		
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed	
EPA METHOD	8021B: VOLATILES		• • • • • • • • • • •		A CONTRACTOR OF CONTRACTOR		Analyst: NSB	
Benzene		ND	0.050		mg/Kg	1	9/9/2010 11:55:15 AM	
Toluene		ND	0.050		mg/Kg	1	9/9/2010 11:55:15 AM	
Ethylbenzene		ND	0.050		mg/Kg	1	9/9/2010 11:55:15 AM	
Xylenes, Total		ND	0.10		mg/Kg	1	9/9/2010 11:55:15 AM	
Surr: 4-Brom	ofluorobenzene	105	88.9-151		%REC	1	9/9/2010 11:55:15 AM	
EPA METHOD	418.1: TPH						Analyst: JB	
Petroleum Hydr	rocarbons, TR	ND	20		mg/Kg	1	9/9/2010	

Date: 11-Jan-11

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

3

CLIENT:	Southwest Geoscience				nt Sample ID:				
Lab Order:	1009209			Co	llection Date:	9/1/2010 3:40:00 PM			
Project:	Kutz Seperator			D	ate Received:	9/3/2010			
Lab ID:	1009209-04			Matrix:		SOIL			
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed		
EPA METHOD	8021B: VOLATILES						Analyst: NSB		
Benzene		ND	0.050		mg/Kg	1	9/9/2010 12:25:30 PM		
Toluene		ND	0.050		mg/Kg	1	9/9/2010 12:25:30 PM		
Ethylbenzene		ND	0.050		mg/Kg	1	9/9/2010 12:25:30 PM		
Xylenes, Total		ND	0.10		mg/Kg	1	9/9/2010 12:25:30 PM		
Surr: 4-Brom	ofluorobenzene	99.5	88.9-151		%REC	1	9/9/2010 12:25:30 PM		
EPA METHOD	418.1: TPH	*					Analyst: JB		
Petroleum Hydr	ocarbons, TR	24	20		mg/Kg	1	9/9/2010		

Date: 11-Jan-11

Qualifiers:

* Value exceeds Maximum Contaminant Level

E Estimated value

- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits
 - 4

QA/QC SUMMARY REPORT

Client: Project:	Southwest G Kutz Sepera									Work	Order:	1009209
Analyte		Result	Units	PQL	SPK V	al SPK ref	%Rec L	owLimit Hi	ighLimit	%RPD	RPDLimit	Qual
Method: EPA Me	thod 418.1: TF	эн										
Sample ID: MB-23	697		MBLK				Batch ID:	23697	Analysis	Date:		9/9/2010
Petroleum Hydrocart	oons, TR	ND ·	mg/Kg	20								
Sample ID: LCS-23	8697		LCS				Batch ID:	23697	Analysis	Date:		9/9/2010
Petroleum Hydrocarb	ons, TR	104.0	mg/Kg	20	100	0	104	86.8	116			
Sample ID: LCSD-	23697		LCSD				Batch ID:	23697	Analysis	Date:		9/9/2010
Petroleum Hydrocarb	oons, TR	100.5	mg/Kg	20	100	0	100	86.8	116	3.46	16.2	
Method: EPA Met	thod 8021B: V	olatiles										
Sample ID: 100920	9-01A MSD		MSD				Batch ID:	23688	Analysis	Date:	9/8/2010	6:56:03 PM
Benzene		1.083	mg/Kg	0.050	1	0.0114	107	67.2	113	1.23	14.3	
Toluene		1.009	mg/Kg	0.050	1	0	101	62.1	116	5.80	15.9	
Ethylbenzene		1.087	mg/Kg	0.050	1	0	109	67.9	127	4.82	14.4	
Xylenes, Total		3.323	mg/Kg	0.10	3	0	111	60.6	134	3.01	12.6	
Sample ID: MB-236	88		MBLK				Batch ID:	23688	Analysis	Date:	9/8/2010	7:56:40 PM
Benzene		ND	mg/Kg	0.050								
Toluene		ND	mg/Kg	0.050								
Ethylbenzene		ND	mg/Kg	0.050								
Xylenes, Total		ND	mg/Kg	0.10								
Sample ID: LCS-23	688		LCS				Batch ID:	23688	Analysis	Date:	9/8/2010 7	7:26:18 PM
Benzene		1.056	mg/Kg	0.050	1	0	106	83.3	107			
Toluene		1.009	mg/Kg	0.050	1	0	101	74.3	115			
Ethylbenzene		1.084	mg/Kg	0.050	1	0	108	80.9	122			
Xylenes, Total		3.281	mg/Kg	0.10	3	0	109	85.2	123			
Sample ID: 1009201	9-01A MS		MS				Batch ID:	23688	Analysis	Date:	9/8/2010 6	5:25:47 PM
Benzene		1.096	mg/Kg	0.050	1	0.0114	108	67.2	113			
Toluene		1.069	mg/Kg	0.050	1	0	107	62.1	116			
Ethylbenzene		1.141	mg/Kg	0.050	1	0	114	67.9	127			
Xylenes, Total		3.425	mg/Kg	0.10	3	0	114	60.6	134			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

- H Holding times for preparation or analysis exceeded
- NC Non-Chlorinated
- R RPD outside accepted recovery limits

5

" recessary, wes submitted to Hatt Environmental may be subcontracted to other accredited laboratories. This	Re	Relinguished by;/		Ars-	1- 34/ - C 1180 ALCI MILL	A SPace		N 0151	-N 1160 0051	e Time Matrix Sample Request ID	EDD (Type)	Accreditation	Standard D Level 4 (Full Validation)	OAVOC Package: OAVOC Package:	3 821 5603	Aztec, NN 87410	Mailing Address: 549 Zia Street	invoice to Dallas office	cuent Southwest beascience	Chain-of-Custody Record	
	Alte The				Toz/1 ice y		* * 3	Ð	Har/1 ice	Container Preservative Type and # Type		Sampler. Kyle Summers	ky	Project Manager.	0210008	Project #:	Kutz Saparator	Project Name:	X Standard D Rush	Tum-Around Time:	and the second se
res as notice of this possibility. Any sub-contracted data will be roctated on the analytical report.	Kemarks:						XXXX	XX		BTEX MITE BTEX + MTB TPH Method EDB (Method 8310 (PNA or RCRA 8 Meta Anlons (F,Cl,I 8081 Pesticid 8260B (VOA) 8270 (Semi-V	E + 801 1411 1504 r PA als NO ₃ es /	TMB's TPH (5B (Gi 8.1) 4.1) 4.1) H) 8082	Gas as/Di	only) lesel) SO4)	Tel. 505-345-3975 Fax 505-345-4107 Analysis Request	A	a	ANALYSIS LABORATORY			the state in the second in the second s



COVER LETTER

Friday, September 17, 2010

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX

RE: Kutz Separator

Order No.: 1009528

Dear Kyle Summers:

Hall Environmental Analysis Laboratory, Inc. received 2 sample(s) on 9/10/2010 for the analyses presented in the following report.

This report is an addendum to the report dated September 17, 2010. This is an updated report.

No determination of compounds below these (denoted by the ND or < sign) has been made.

Reporting limits are determined by EPA methodology.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.hallenvironmental.com

CLIENT:Southwest GeoscienceLab Order:1009528Project:Kutz SeparatorLab ID:1009528-01			Client Sample ID: Collection Date: Date Received: Matrix:	9/8/2010 2 9/10/2010	2:00:00 PM
Analyses	Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE OR	GANICS				Analyst: SCC
Diesel Range Organics (DRO)	11	10	mg/Kg	1	9/15/2010 10:32:46 PM
Surr: DNOP	96.2	61.7-135	%REC	1	9/15/2010 10:32:46 PM
EPA METHOD 8015B: GASOLINE RANGE Gasoline Range Organics (GRO) Surr: BFB	ND 96.9	5.0 60.2-161	mg/Kg %REC	1	Analyst: NSB 9/16/2010 4:44:06 PM 9/16/2010 4:44:06 PM
Sun. BFB	90.9	00.2-101	%REC	1	9/10/2010 4.44.00 PM
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	0.050	mg/Kg	1	9/16/2010 4:44:06 PM
Toluene	ND	0.050	mg/Kg	1	9/16/2010 4:44:06 PM
Ethylbenzene	ND	0.050	mg/Kg	1	9/16/2010 4:44:06 PM
Xylenes, Total	ND	0.10	mg/Kg	1	9/16/2010 4:44:06 PM
Surr: 4-Bromofluorobenzene	95.3	88.9-151	%REC	1	9/16/2010 4:44:06 PM

Date: 07-Jan-11

Hall Environmental Analysis Laboratory, Inc.

* Value exceeds Maximum Contaminant Level

Qualifiers:

E Estimated value

- Analyte detected below quantitation limits J
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

Page 1 of 2

Lab Order.	1007520			Concention Date	. 9/0/2010	4.00.00 1 101
Project:	Kutz Separator			Date Received	1: 9/10/2010)
Lab ID:	1009528-02			Matrix	SOIL	
Analyses		Result	PQL	Qual Units	DF	Date Analyzed
EPA METHOD 80	15B: DIESEL RANGE	ORGANICS				Analyst: SCC
Diesel Range Org	anics (DRO)	90	10	mg/Kg	1	9/15/2010 11:06:53 PM
Surr: DNOP		111	61.7-135	%REC	1	9/15/2010 11:06:53 PM
EPA METHOD 80	15B: GASOLINE RAM	IGE				Analyst: NSB
Gasoline Range C	Organics (GRO)	ND	5.0	mg/Kg	1	9/16/2010 5:14:25 PM
Surr: BFB		124	60.2-161	%REC	1	9/16/2010 5:14:25 PM
EPA METHOD 80	21B: VOLATILES					Analyst: NSB
Benzene		ND	0.050	mg/Kg	1	9/16/2010 5:14:25 PM
Toluene		ND	0.050	mg/Kg	1	9/16/2010 5:14:25 PM
Ethylbenzene		ND	0.050	mg/Kg	1	9/16/2010 5:14:25 PM
Xylenes, Total		ND	0.10	mg/Kg	1	9/16/2010 5:14:25 PM
Surr: 4-Bromofle	uorobenzene	117	88.9-151	%REC	1	9/16/2010 5:14:25 PM

Qualifiers:

Value exceeds Maximum Contaminant Level *

E Estimated value

- J Analyte detected below quantitation limits
- NC Non-Chlorinated
- PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit

S Spike recovery outside accepted recovery limits

Page 2 of 2

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Southwest Geoscience Lab Order: 1009528

Date: 07-Jan-11

Client Sample ID: Tanks 1,2 Conf-1 Collection Date: 9/8/2010 4:00:00 PM

QA/QC SUMMARY REPORT

	outhwest Go utz Separat									*	Work	Order:	1009528
Analyte		Result	Units	PQL	SPK V	al SPK r	ef	%Rec L	owLlmit Hi	ghLimit	%RPD	RPDLimit	Qual
		iesel Range											
Sample ID: MB-23766	5		MBLK				E	Batch ID:	23766	Analysi	s Date:	9/15/2010	5:25:14 PM
Diesel Range Organics	(DRO)	ND	mg/Kg	10									
Motor Oil Range Organi	ics (MRO)	ND	mg/Kg	50									
Sample ID: LCS-2376	6		LCS				E	Batch ID:	23766	Analysi	s Date:	9/15/2010	5:59:36 PM
Diesel Range Organics	(DRO)	39.90	mg/Kg	10	50	0)	79.8	64.6	116			
Method: EPA Metho	od 8015B: G	asoline Ran	ge										
Sample ID: MB-23759			MBLK				E	Batch ID:	23759	Analysi	s Date:	9/14/2010	9:32:26 PM
Gasoline Range Organi	cs (GRO)	ND	mg/Kg	5.0									
Sample ID: LCS-2375	9		LCS				E	Batch ID:	23759	Analysi	s Date:	9/14/2010	7:31:04 PM
Gasoline Range Organi	cs (GRO)	26.27	mg/Kg	5.0	25	0)	105	74.2	136			
Method: EPA Metho	d 8021B: Vo	olatiles											
Sample ID: MB-23759	F		MBLK				E	atch ID:	23759	Analysi	s Date:	9/15/2010	8:57:47 PM
Benzene		ND	mg/Kg	0.050								4.	
Toluene		ND	mg/Kg	0.050									
Ethylbenzene		ND	mg/Kg	0.050									
Xylenes, Total		ND	mg/Kg	0.10									
Sample ID: LCS-2375	9		LCS				B	atch ID:	23759	Analysi	s Date:	9/15/2010	7:57:09 PM
Benzene		1.009	mg/Kg	0.050	1	0.0158		99.3	83.3	107			
Toluene		0.9572	mg/Kg	0.050	1	0		95.7	74.3	115			
Ethylbenzene		1.031	mg/Kg	0.050	1	0.0112		102	80.9	122			
Xylenes, Total		3.119	mg/Kg	0.10	3	0		104	85.2	123			

Qualifiers:

E Estimated value

J Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit 11

Holding times for preparation or analysis exceeded Non-Chlorinated NC

R RPD outside accepted recovery limits Page 1

Chain-of-Custody Record	Turn-Around Time:	
Client: Southwest Geoscience	🕅 Standard 🗆 Rush	ANALYSIS LABORATORY
(bill Dollas office)	Project Name: Kutz Separator	www.hallenvironmental.com
Mailing Address: 549E.Z'a Street	Rivitz Separator	4901 Hawkins NE - Albuquerque, NM 87109
Aztec, NM 87410	Project #: 0210008	Tel. 505-345-3975 Fax 505-345-4107
Phone #: 903-821-5603		Analysis Request
email or Fax#: Krle, Summers @ QA/QC Package: Southwest geoscience.C Southwest geoscience.C	16918-1411111	TMB's (8021) TPH (Gas only) 5B (Gas/Diesel) 8.1) (H) (H) (H) (N) (N)
Accreditation Image: NELAP Image: Other	Sampler: Kye Summers	E + TMB ⁴ E + TMB ⁴ E + TPH (G 8015B (G 8015B (G 1418.1) 1 504.1) 1 504.1] 1 504.1
Date Time Matrix Sample Request ID	Container Preservative Type and # Type	BTEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH (Method 8015B (Gas/Diesel TPH (Method 418.1) EDB (Method 504.1) B310 (PNA or PAH) RCRA 8 Metals Anions (F,Cl,NO ₃ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8270 (Semi-VOA)
9/8/10 1400 Soil Sump Cont-1	toz/1 ice	
9/3/10 1600 Soil Janks 1,2 Comf-1	400/ ise 2	XX
	ALAC	
	NE	
Pate: Time: Relinquished by: Date: Time: Relinquished by:	Received by:	Remarks:



COVER LETTER

Tuesday, February 22, 2011

Kyle Summers Southwest Geoscience 606 S. Rio Grande Unit A Aztec, NM 87410

TEL: (903) 821-5603 FAX

RE: Kutz Separator

Dear Kyle Summers:

Order No.: 1102339

Hall Environmental Analysis Laboratory, Inc. received 1 sample(s) on 2/11/2011 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. Below is a list of our accreditations. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites.

Reporting limits are determined by EPA methodology.

Please do not hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Laboratory Manager

NM Lab # NM9425 NM0901 AZ license # AZ0682 ORELAP Lab # NM100001 Texas Lab# T104704424-08-TX



4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109 505.345.3975 ■ Fax 505.345.4107 www.hallenvironmental.com

CLIENT:	Southwest Geoscience			Clier	nt Sample ID:	Kutz Com	0
Lab Order:	1102339			Co	llection Date:	2/10/2011	11:45:00 AM
Project:	Kutz Separator			D	ate Received:	2/11/2011	
Lab ID:	1102339-01				Matrix:	SOIL	
Analyses		Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 80	015B: DIESEL RANGE O	RGANICS				e or i i i i i i i i i i i i i i i i i i	Analyst: JB
Diesel Range Org	anics (DRO)	910	100		mg/Kg	10	2/16/2011 3:34:36 PM
Surr: DNOP		0	81.8-129	S	%REC	10	2/16/2011 3:34:36 PM
EPA METHOD 80	15B: GASOLINE RANG	E					Analyst: NSB
Gasoline Range (Organics (GRO)	ND	50		mg/Kg	10	2/17/2011 7:33:36 PM
Surr: BFB		100	89.7-125		%REC	10	2/17/2011 7:33:36 PM
EPA METHOD 80	21B: VOLATILES						Analyst: NSB
Benzene		ND	0.50		mg/Kg	10	2/17/2011 7:33:36 PM
Toluene		ND	0.50		mg/Kg	10	2/17/2011 7:33:36 PM
Ethylbenzene		ND	0.50		mg/Kg	10	2/17/2011 7:33:36 PM
Xylenes, Total		ND	1.0		mg/Kg	10	2/17/2011 7:33:36 PM
Surr: 4-Bromof	uorobenzene	101	85.3-139		%REC	10	2/17/2011 7:33:36 PM

Date: 22-Feb-11

Qualifiers:

- * Value exceeds Maximum Contaminant Level
- E Estimated value
- J Analyte detected below quantitation limits

NC Non-Chlorinated

PQL Practical Quantitation Limit

- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- MCL Maximum Contaminant Level
- ND Not Detected at the Reporting Limit
- S Spike recovery outside accepted recovery limits

QA/QC SUMMARY REPORT

Client:	Southwest G	eoscience										
Project:	Kutz Separat	tor								Work	Order:	1102339
Analyte		Result	Units	PQL	SPK V	al SPK ref	%Rec L	owLimit Hi	ghLimit	%RPD	RPDLimit	Qual
Method: EF	PA Method 8015B: D	iesel Range	Organics									
Sample ID: N	AB-25622		MBLK				Batch ID:	25622	Analysi	s Date:	2/16/2011	9:54:29 AM
Diesel Range Sample ID: L	Organics (DRO) .CS-25622	ND	mg/Kg LCS	10			Batch ID:	25622	Analysi	s Date:	2/16/2011 1	0:28:36 AM
Diesel Range	Organics (DRO)	47.73	mg/Kg	10	50	0	95.5	66.2	120			
Method: EF	A Method 8015B: G	asoline Ran	ne									
	102339-01AMSD		MSD				Batch ID:	25606	Analysi	s Date:	2/17/2011 1	1:53:44 PM
Gasoline Rang Sample ID: M	je Organics (GRO) /IB-25606	39.70	mg/Kg MBLK	25	25	0	159 Batch ID:	69.2 25606	144 Analysi	14.6 s Date:	20.5 2/17/2011	S 9:00:23 PM
Gasoline Rang Sample ID: L	je Organics (GRO) . CS-25606	ND	mg/Kg LCS	5.0			Batch ID:	25606	Analysi	s Date:	2/17/2011	8:31:29 PM
	je Organics (GRO) 102339-01AMS	26.78	mg/Kg MS	5.0	25	0	107 Batch ID:	95.7 25606	120 Analysi	s Date:	2/17/2011 1	1:24:49 PM
Gasoline Rang	e Organics (GRO)	34.30	mg/Kg	25	25	0	137	69.2	144			
Method: EF	A Method 8021B: V	olatiles										
Sample ID: N	AB-25606		MBLK				Batch ID:	25606	Analysi	s Date:	2/17/2011	9:00:23 PM
Benzene Toluene Ethylbenzene Xylenes, Total		ND ND ND ND	mg/Kg mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050 0.10								
Sample ID: L	CS-25606		LCS				Batch ID:	25606	Analysi	s Date:	2/17/2011 8	3:02:34 PM
Benzene Toluene Ethylbenzene		0.9348 0.9230 0.9556	mg/Kg mg/Kg mg/Kg	0.050 0.050 0.050	1 1 1	0 0 0.0095	93.5 92.3 94.6	83.3 74.3 80.9	107 115 122			
Xylenes, Total		2.918	mg/Kg	0.10	3	0.0141	96.8	85.2	123			

Qualifiers: E Estimated value

Analyte detected below quantitation limits J

ND Not Detected at the Reporting Limit Н

Holding times for preparation or analysis exceeded Non-Chlorinated NC

R RPD outside accepted recovery limits Page 1

Sample Receipt Checklist

FedEx

Client Name SOUTHWEST GEOSCIENCE

Work Order Number 1102339

Checklist completed by:

Matrix:

Signature

2/11/11

Received by:

Date Received:

Sample ID labels checked by:

MMG



Shipping container/cooler in good condition? No Not Present Yes Custody seals intact on shipping container/cooler? No Not Present Not Shipped Yes Custody seals intact on sample bottles? N/A Yes No . Chain of custody present? 1 No Yes Chain of custody signed when relinquished and received? No Yes V Chain of custody agrees with sample labels? Yes V No Samples in proper container/bottle? Yes ~ No Sample containers intact? ~ No Yes Sufficient sample volume for indicated test? No Yes All samples received within holding time? No Number of preserved Yes bottles checked for No VOA vials submitted V Yes No Water - VOA vials have zero headspace? pH: Water - Preservation labels on bottle and cap match? Yes No ! N/A Water - pH acceptable upon receipt? Yes No N/A <2 >12 unless noted below. Container/Temp Blank temperature? <6° C Acceptable If given sufficient time to cool.

Carrier name:

COMMENTS:

Date contacted:

Regarding:

Person contacted

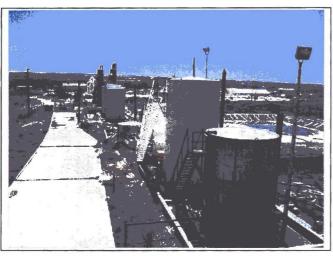
Contacted by:

Comments:

· Corrective Action

CHAIN OF CUSTODY RECORD Lab use only ANALYSIS Couthwest Due Date: REQUESTED Laboratory: 1020 GEOSCIENCE Address: raue Temp, of coolers Environmental & Hydrogeologic Consultants when received (C°): 520 reeman. 3 Office Location H Contact: ANA 2 4 5 Phone: Page of 0410002 HON Summers Project Manager PO/SO #: BTEX Sampler's Name Sampler's Signature Summer Project Name Kutz Separator No/Type of Containers BOKS 1002 8021 Grab COED Start Depth End Depth Identifying Marks of Sample(s) VOA A/G 250 P/O Matrix Date Time Lab Sample ID (Lab Use Only) 111 mi 1145 Kutz COMP 5 710/11 2 2339 X Х Normal Turn around time 25% Rush 350% Rush 100% Rush Relinquished by (Signature) Date: / Time: Received by: (Signature) NOTES: Date: Time: Date: Relinquished by (Signature) Date: Time: Received by: (Signature) Time: 11:05 DALICY : hal Received by: (Signature) Relinquished by (Signature) Date: Time: Date: Time: Relinquished by (Signature) Date: Time: Received by: (Signature) Date: Time: Matrix WW - Wastewater W - Water S - Soil SD - Solid L - Liquid A - Air Bag C - Charcoal tube SL - słudge O - Oil Container VOA - 40 ml vial A/G - Amber / Or Glass 1 Liter 250 ml - Glass wide mouth P/O - Plastic or other

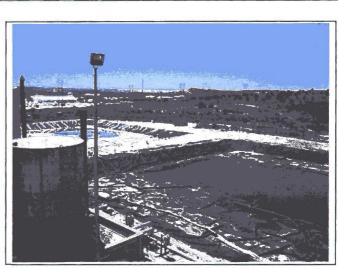
SOUTHWEST GEOSCIENCE • 2351 W. Northwest Hwy., Suite 3321 • Dallas, Texas 75220 • Office: 214-350-5469 • Fax 214-350-2914



1.) View of tanks and fixtures (facing south) prior to removal.



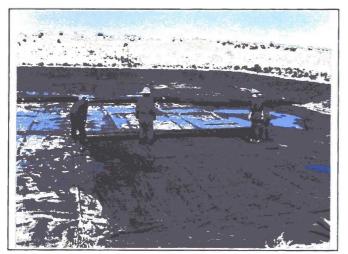
3.) View of northern tanks (facing north).



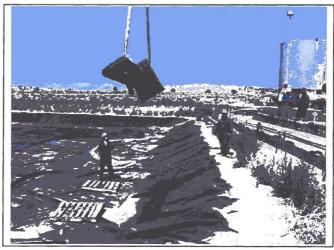
2.) View of evaporation ponds (facing southwest) prior to removal.



4.) General view of liner cleaning activities prior to removal.



5.) General view of the removal of the primary or top liner from the southern pond.

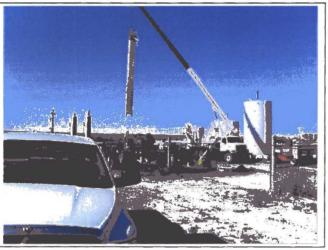


6.) View of the portion of the northern pond used as powerwashing pad.





7.) Representative view of the storage tanks loaded for offsite disposal.



9.) View of the miscellaneous metal items being loaded for off-site recycling as scrap metal.



11.) General view of the stained potentially impacted soil stockpiled on-site prior to final characterization.



 Seneral view of the soils underlying the bottom liner subsequent to the removal of all liners in the northern pond.



10.) View of the stained soil encountered on the eastern portion of the Site.



12.) Representative view during hydro-seeding after final site grading.

