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ENVIRONMENTAL PROTECTION

**UNDERGROUND STORAGE TANK REMOVALS  
MONTELLO AND OLIVER REVITALIZATION PROJECT  
1405 OLIVER STREET  
RENO, WASHOE COUNTY, NEVADA**

**Submitted to:**

**Nevada Division of Environmental Protection  
Brownfields Program  
901 South Stewart Street  
Carson City, Nevada 89701**

**Submitted by:**

**AMEC Earth & Environmental, Inc.  
780 Vista Boulevard, Suite 100  
Sparks, Nevada 89434**

**May 2008**

**AMEC Project No. 8-417-000843, Phase 3**



May 20, 2008  
AMEC Project No. 8-417-000843, Phase 3

Nevada Division of Environmental Protection  
Brownfields Program  
901 South Stewart Street  
Carson City, Nevada 89701

**Attention: Ms. Lisa Johnson  
Environmental Scientist**

**Re: UNDERGROUND STORAGE TANK REMOVALS  
Montello and Oliver Revitalization Project  
1405 Oliver Street  
Reno, Washoe County, Nevada**

Dear Ms. Johnson:

The following presents AMEC Earth & Environmental, Inc.'s (AMEC's) summary of the removal of two underground storage tanks (USTs) at the referenced location (Figure 1). Our proposed scope of work was dated March 14, 2008. This work was conducted by the City of Reno, and received funding assistance provided by the Nevada Division of Environmental Protection (NDEP), Brownfields Program.

## **1. PHASE I ESA FINDINGS**

A Phase I ESA prepared for the site and dated June 11, 2007, found that the site was used as a gas station and food store (Mini-Mart #1) from 1967 to about 1972, and for miscellaneous non-food, non-fuel businesses thereafter. The site still contained two USTs, product piping, a fuel island slab and vent lines. The fuel dispensers were no longer present.

## **2. UST REMOVAL WORK SCOPE**

The scope of the UST removal services included:

- Phase 1: Preliminary Removal Activities
- Phase 2: Removal of USTs
- Phase 3: Technical Memorandum / Scope of Work

The specific tasks were divided budgetarily between the City of Reno and Brownfields/NDEP in the following manner:



### ***City of Reno***

- Phase 1: Tightness Testing and NPF Enrollment
  
- Phase 2: Contaminated Soil Excavation and Sampling  
Soil Confirmation Testing and Stockpiled Soil Characterization  
Investigation Derived Waste (IDW) Disposal
  
- Phase 3: Technical Memorandum

### ***Brownfields / NDEP***

- Phase 1: UST Size Assessment, Utility Location and Disposal of UST contents  
Remove and Dispose of UST Contents  
Prepare a Health and Safety Plan
  
- Phase 2: Removal of USTs and Site Restoration
  
- Phase 3: Technical Memorandum

Copies of the approved work scopes are included in Appendix A.

## **3. UST REMOVAL PROCESS AND FINDINGS**

### **3.1 UST Size Assessment, Utility Location, Disposal of UST Contents, Health and Safety Plan**

The preliminary inspection of the site confirmed that two USTs remained in place, that each UST appeared to be full of liquid, a mix of water and gasoline. The product piping, fuel island slab and vent lines were all still in place. The fuel dispensers had been removed. The diameters of each UST were measured as 8 feet, suggesting that each tank was about 10,000 gallons in capacity. This was confirmed during utility location and removal of the liquid for disposal purposes. Approximately 20,000 gallons of liquid were pumped from the USTs and transported to Clearwater Environmental Management Inc., of Silver Springs, Nevada, for energy recovery.

A Health and Safety Plan was prepared for the UST removals and site restoration. A copy is included in Appendix B.



### **3.2 Tightness Testing and NPF Enrollment**

The City of Reno planned on having funding available through the Nevada Petroleum Fund (NPF) for a portion of potential petroleum release clean up costs. The means of establishing eligibility for cost recovery from the NPF is for each UST to successfully pass a tank tightness test, then submitting the enrollment forms plus the annual fees to the NPF. On April 18, 2008, AMEC had the USTs tested for tightness by Lawrence Tank Testing, Inc., who is certified for this procedure by the State of Nevada. The test procedure required by the NPF involved placing a tracer gas (helium) within each UST, and monitoring the ground surface above the USTs with a gas analyzer to see if any helium escaped the USTs. This test was conducted after the liquid contents had been removed. Both tanks failed; therefore, neither tank was eligible for cost recovery from the NPF.

### **3.3 Removal of USTs**

On April 21 and 22, the USTs were pumped of all liquids. On April 23, BRAMCO uncovered the USTs and piping, and began venting the interior air space of the USTs to reduce flammable vapors. On April 25, BRAMCO measured the interior air in each tank and documented that the air was well below the lower explosive limit (LEL) threshold. BRAMCO then obtained the approval to proceed from the Truckee Meadows Fire Department, and coordinated the removal of the USTs with a crane service. A copy of the permit acquired by BRAMCO for Abandonment of Underground Tanks and Piping is attached in Appendix E. Photographs in Appendix C (Photos 1 through 4) document UST removals. The USTs were removed intact, and appeared to be in good shape with no discernable holes or staining. Only minor organic vapors were noted in soil from around and beneath the USTs, and no discoloration. Soil with little evidence of petroleum (organic vapors or discoloration) was placed on the east side of the excavation for potential reuse (Photograph 8). Soil with evidence of petroleum was placed on the west side of the excavation (Photograph 7). BRAMCO also removed the product piping (Photograph 5) and vent lines, and the concrete and piping from the dispenser area. Soil staining was noted in two locations beneath the product lines, and in one location beneath the former fuel dispenser. BRAMCO excavated additional soil in those areas where staining was noted.

### **3.4 Soil Confirmation Testing and Stockpiled Soil Characterization**

#### **3.4.1 Sample Collection and Analyses**

AMEC collected soil samples for analysis to document the condition of the soils with respect to petroleum (Photograph 6). Figure 2 shows the sample locations. The samples include:



### ***April 23***

- Four samples from beneath the piping (S-1 through S-4), 2 feet below site grade (bgs)
- Two samples from the fuel dispenser area (S-5 and S-6), 2 feet bgs
- Three composite samples, two from the larger soil pile (C-1 and C-2), and one from the small soil pile (C-3) with presumed contaminated soil

### ***April 25***

- Four samples from beneath the USTs (ET-S, ET-N, WT-E, WT-N); 16 feet bgs
- Two samples from the product piping trench (C-1A and C-3A); 5 feet bgs
- One sample from the fuel island area (C-5A), 5 feet bgs
- One composite sample, small soil stockpile (C-4)

The composite samples each consist of four aliquots. Each sample was placed in laboratory supplied jars, labeled, and placed in iced coolers. The samples were submitted under chain of custody protocol to Alpha Analytical Laboratories, Inc, of Sparks, Nevada, who is certified for the requested analyses with the State of Nevada. Copies of the chains-of custody are included in Appendix D.

Analyses included the following:

- Diesel and oil range organics (DRO and ORO) by EPA Method 8015M
- Gasoline range organics (GRO) by EPA Method 8015M
- Benzene, toluene, ethylbenzene and total xylenes (BTEX), and methyl tertiary butyl ether (MTBE), by EPA Method 8260B
- Volatile organic compounds (VOCs) by EPA Method 8260B
- RCRA metals/TCLP by EPA Method 6020A

The VOCs and metals analyses (composite sample C-3 only) provide the basis for acceptance of the soil for treatment as a non-hazardous waste by Nevada Thermal Services (NTS). Analytical results are summarized in Table 1. Copies of the analytical results are included in Appendix D.

### **3.4.2 Analytical Results**

AMEC submitted the first set of confirmation soil samples of April 23, collected from along the piping and in the dispenser island area (S-1 through S-6), for analysis on a 24 hour turnaround basis to expedite project completion. Four of the six samples collected from the product piping and fuel island excavation contained petroleum (S-1, S-3, S-4 and S-5, Table 1). Two samples



(S-3 and S-4) contained relatively low concentrations of gasoline constituents only, and two (S-1 and S-5) contained petroleum in the ranges of oil and diesel, as high as 830 mg/kg. On April 25, following additional excavation, AMEC collected three additional samples from below the product line excavation and the fuel island area (Figure 2) where petroleum had been reported in the initial samples. Each of these samples was reported as non-detect (ND) for all analytes (Table 1).

On April 25, AMEC collected four confirmation samples from beneath the USTs following removal (Figure 2). Each of these samples was reported as ND for all analytes (Table 1).

Two composite samples (combined samples C-1+2, and sample C-3) were collected on April 23 and submitted for analyses on a 48 hour turnaround basis. The analytical results (Table 1) showed that the large stockpile sample (C-1+2) was reported as ND for TPH, and the small stockpile (C-3) contained 10 mg/kg of TPH in the range of oil. The VOCs results for the composite sample collected from contaminated soil pile (C-3) were reported as ND and the metals results showed only lead above the reporting limit. These results were adequate for the soil to be accepted and treated as non-hazardous waste at NTS. A final composite sample was collected from the small excavated stockpile (C-4), after the final excavated soil from the pipeline trench was added. It was analyzed for TPH and reported as ND.

### **3.5 Site Restoration**

Following receipt of approval from AMEC, BRAMCO filled the bottom of the excavation with drain rock/gravel to within four feet of the surface. BRAMCO then placed filter fabric over the drain rock, and the clean excavated soil over the filter fabric and drain rock. The clean excavated soil was also placed in the piping trench and in the dispenser island area. This soil was machine compacted and left even with the surrounding site surface. No density testing was conducted on the fill soils. Accordingly, these soils may settle over time.

### **3.6 Investigation Derived Waste (IDW) Disposal**

The non-regulated waste materials were transported to the Lockwood Landfill as standard waste, including concrete and asphalt rubble and miscellaneous debris. The contaminated excavated soil was hauled to NTS in Storey County for treatment by thermal desorption (11.61 tons). A certificate of treatment will be provided to the City of Reno, and copied to the NDEP, once issued by NTS. The USTs were hauled to Clearwater Environmental Management Inc., in Silver Springs, Lyon County, Nevada. The USTs were recycled for scrap steel. Certificates of recycling are included in Appendix E.



#### 4. DISCUSSION

During removal of the USTs and piping, the only area with petroleum impacted soil was the product line trench and the east end of the fuel dispenser island. The soil above and around the USTs was tested and found to be ND for all analytes. Accordingly, that soil was approved for reuse in filling the excavation. Petroleum impacted soil, in the amount of 11.61 tons, was deemed as not reusable. It was transported to NTS for treatment by thermal desorption. The tanks, piping, dispenser island concrete and vent lines were all successfully removed and either recycled or disposed. The site was restored to a flat surface with no impediments. All final confirmation soil samples were reported as ND. Therefore, the site warrants the status of a clean closure.

#### 5. RECOMMENDATIONS

We recommend no further action with respect to assessment or remediation at this location. A copy of this report should be submitted by the City of Reno to the Washoe County District Health Department and the Truckee Meadows Fire Protection District.

Should you have any questions concerning this report of findings, we would appreciate the opportunity to discuss them with you. Please call us at (775) 331-2375.

**AMEC Earth & Environmental, Inc.**

Reviewed by,

A handwritten signature in black ink, appearing to read "John Dyer".

John Dyer, C.E.M.  
Senior Project Manager

A handwritten signature in black ink, appearing to read "Brett Whitford".

Brett Whitford, C.E.M.  
Environmental Services Manager

JD/BW/mm

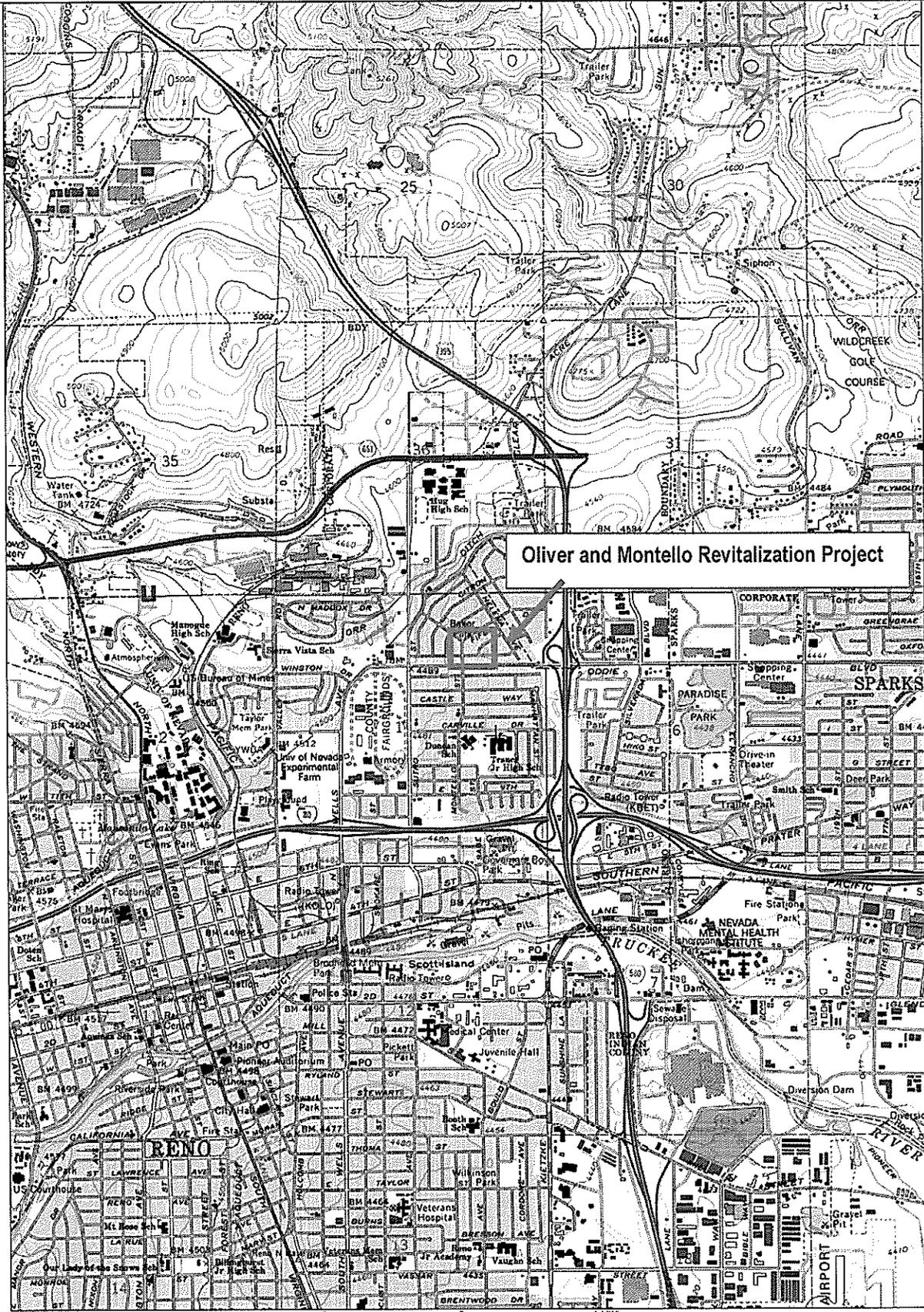
Attachments - Table 1  
- Figures 1 and 2  
- Appendices A through E



**Table 1  
Soil Sample Analytical Summary  
Montello and Oliver Revitalization, UST Removals, Reno, Nevada**

Location	Depth (feet)	Collection Date	TPH (8015B)	BTEX/MITBE (8260)	VOCs (8260B)	Metals (TCLP/6020A)
S-1	2	4-23-08	20 - diesel 140 - oil	ND	--	--
S-2	2	4-23-08	ND	ND	--	--
S-3	2	4-23-08	ND	E: 25 X: 222	--	--
S-4	2	4-23-08	ND	T: 33 E: 23 X: 192	--	--
S-5	2	4-23-08	130 - diesel 830 - oil	ND	--	--
S-6	2	4-23-08	ND	ND	--	--
S-1A	5	4-25-08	ND	ND	--	--
S-3A	5	4-25-08	ND	ND	--	--
S-5A	5	4-25-08	ND	ND	--	--
ET-S	16	4-25-08	ND	ND	--	--
ET-N	16	4-25-08	ND	ND	--	--
WT-S	16	4-25-08	ND	ND	--	--
WT-N	16	4-25-08	ND	ND	--	--
C-1+2	--	4-23-08	ND	--	--	--
C-3	--	4-23-08	10 - oil	--	ND	Lead: 0.23
C-4	--	4-25-08	ND	--	--	--
		Reporting Units	mg/kg	µg/kg	µg/kg	mg/L
--		Not analyzed				
BTEX		Benzene, toluene, ethylbenzene, total xylenes, EPA Method 8260B				
MITBE		Methyl tertiary butyl ether, EPA Method 8260B				
ND		Not detected at or below reporting limits				
TCLP/metals		Toxicity characteristic leaching procedure, 7 RCRA metals (Cr, As, Se, Ag, Cd, Ba, Pb)				
TPH-E		Total petroleum hydrocarbons, purgeable and extractable, EPA 8015B, oil, diesel and gasoline range organics				
VOCs		Volatile organic compounds, EPA Method 8260B				

**FIGURES**



Oliver and Montello Revitalization Project

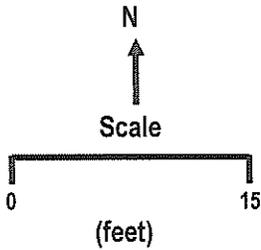
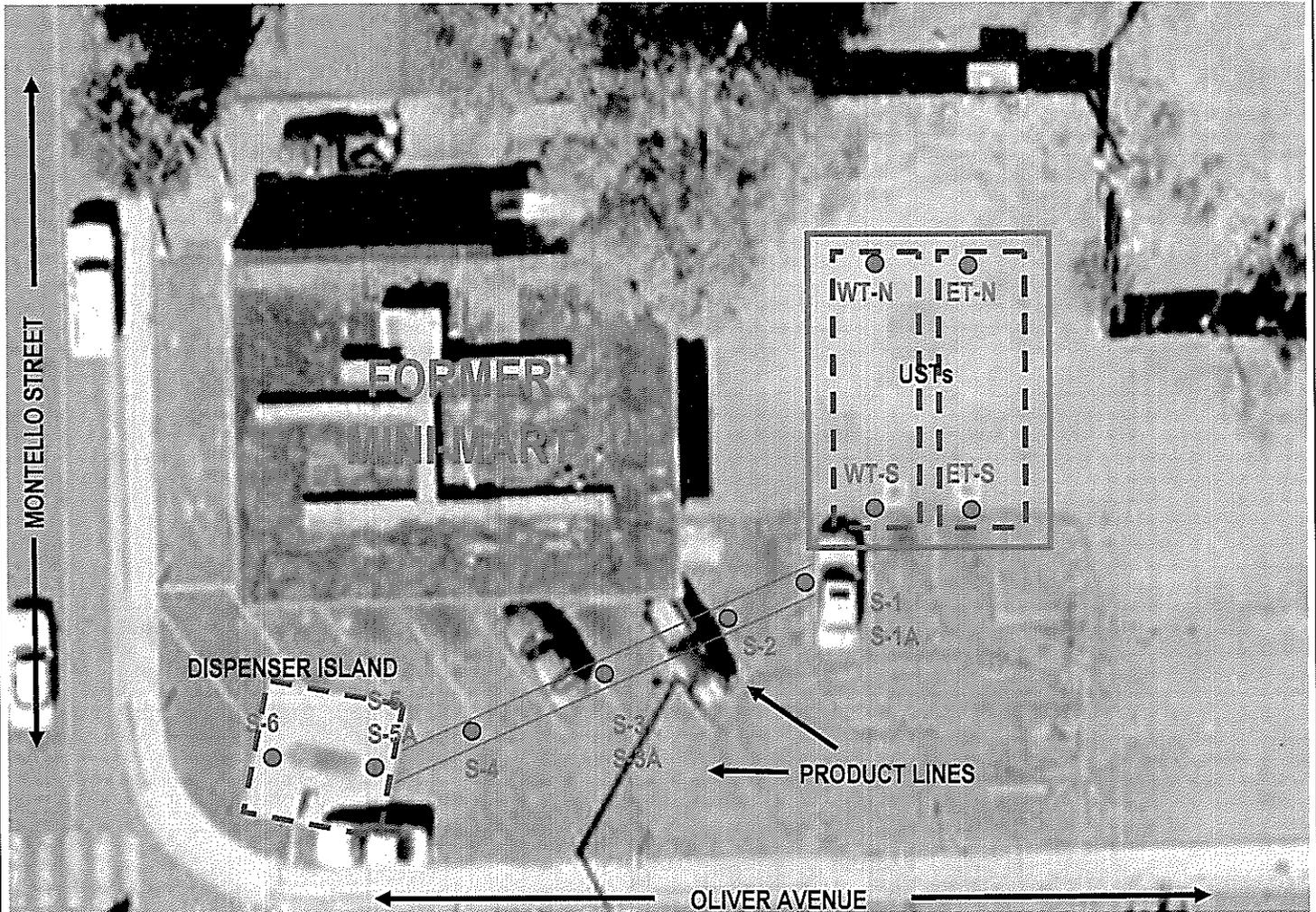
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**amec**  
780 Vista Blvd., Suite 100  
Sparks, Nevada  
USA 89433-6656  
Tel 1+(775) 331-2375

JOB NO. 8-417-000843.3  
DRAWN JD  
DATE 05/08  
SCALE

**FIGURE 1**  
Vicinity Map  
Oliver and Montello Revitalization Project  
NDEP, Brownfields Program  
1405 Oliver Street, Reno, Nevada



**LEGEND**

- S-3 Initial sample of April 23, 2008
  - S-3A Follow-up sample of April 25, 2008
- some came up not resampled*

**FIGURE 2**

Underground Storage Tank Removals  
 Oliver and Montello Revitalization Project  
 NDEP, Brownfields Program  
 1405 Oliver Street, Reno, Nevada



780 Vista Blvd., Suite 100  
 Sparks, Nevada  
 USA 89433-6656  
 Tel 1+(775) 331-2375

JOB NO. 8-417-000843.3  
 DRAWN JD  
 DATE 05/08  
 SCALE \_\_\_\_\_



**APPENDIX A**

**WORK SCOPES FOR CITY OF RENO  
AND NDEP / BROWNFIELDS**



March 14, 2008  
AMEC Proposal No. PN08-2-12, Revision 2

City of Reno  
1 First Street  
Reno, Nevada 89501

**Attention: Ms. Jodi Royal-Goodwin  
Community Reinvestment Manager**

**Re: STATEMENT OF WORK  
Underground Storage Tanks Remediation  
1405 Oliver Street  
Reno, Washoe County, Nevada**

Dear Ms. Royal-Goodwin:

The following presents AMEC Earth & Environmental, Inc.'s (AMEC's) scope of work, schedule and fees to assist the City of Reno with potential remedial activities associated with the removal of two underground storage tanks (USTs) at the referenced location. Our proposed scope of work is based on our review of a Phase I Environmental Site Assessment, dated June 11, 2007, prepared by MACTEC Engineering and Consulting, Inc., for the City of Reno. AMEC received and reviewed the application for Brownfield assistance prepared by the City of Reno and submitted to the Nevada Division of Environmental protection (NDEP) Brownfields Program (the Program). AMEC also attended a meeting with representatives of the City of Reno, the Program and the Nevada Petroleum Fund (NPF) at the NDEP office in Carson City on February 21, 2008. The purpose of this meeting was to discuss the project work scope, the funding by the Program, and the availability of NPF reimbursement funding if a petroleum release is found.

## **1. SCOPE OF WORK**

### **1.1 Background and Project Description**

#### **1.1.1 Background**

The City of Reno has requested that AMEC assist with soil sample analyses during UST removal and with potential remediation following the removal of two USTs at the referenced property so the site may be redeveloped. The site was used as a gas station and food store (Mini-Mart #1) from 1967 to about 1972, and for miscellaneous non-food, non-fuel businesses thereafter. The site still contains two USTs, product piping, a fuel island slab and vent lines. The fuel dispensers are no longer present. Based on a brief visual inspection of the UST fill ports, each UST appears to contain a petroleum liquid consisting of gasoline and water.



However, the size of the USTs and the actual volume of fuel present could not be determined. It is estimated that each UST volume is either 5,000 or 10,000 gallons.

The Program will cover the costs of the removal of the USTs except for the analytical costs and the tank tightness testing costs. Portions of the costs of assessment and remediation of a petroleum release is anticipated to be eligible for reimbursement by the NPF to the City of Reno.

### **1.1.2 Project Description**

We anticipate three separate phases to the overall project as outlined below:

- Phase 1: Preliminary Removal Activities
- Phase 2: Removal of USTs
- Phase 3: Technical Memorandum/Scope of Work

It is understood that the cost of removal of the USTs, the product piping, the fuel island slab and the vent lines, disposal of non-contaminated wastes, and restoration of the site will be covered by the Program except for the analytical and the tank tightness testing costs. AMEC, as an approved Brownfields Program contractor, will contract with the Program to oversee these activities. The services will be conducted by and/or overseen by a Nevada Certified Environmental Manager (CEM). AMEC will provide the Program a separate proposal for these services.

In the event a release of petroleum is discovered during UST removal, initial remediation and the subsequent assessment and remediation may be eligible for reimbursement of approved costs from the NPF. AMEC will contract with the City of Reno to oversee these activities, and provides this work plan for these services.

The work scopes for the City of Reno and for the Program will be performed concurrently, and AMEC will track the effort and costs separately.

### **1.1.3 Nevada Petroleum Fund**

The NPF is one way for the City of Reno to meet the financial responsibility requirements of the Nevada and Federal UST regulations. It would also allow the City of Reno to recoup a high percentage of costs for assessment and remediation of a significant petroleum release, if necessary. The NPF provides funding of up to \$1,000,000 for the assessment and clean-up of petroleum releases per UST, and up to \$1,000,000 for costs associated with third party impacts. According to Mr. Bridwell of the NPF, reimbursement of eligible costs is automatically reduced by 20% since the USTs are out of service and considered 'abandoned'. Also, there is a standard 10% co-pay for each tank. Therefore, the maximum reimbursement of eligible costs is



72% (100%-20%-[10% of 80%] = 72%). Additionally, the NPF may not reimburse the City for all the mark-ups for vendors or sub-contractors.

For enrollment in the NPF, a UST must be 'tight' as determined by a 'tightness test' conducted by a Nevada certified tank tester. This provides the presumption that the UST has not significantly leaked. If the UST fails the tightness test, it will not be accepted in the NPF and will not be eligible for any reimbursements from the NPF. With a passing test, the UST will then be enrolled in the NPF by submitting an application, the test certificate and the fees of \$100 per UST (see Task 2, below).

Costs for assessment and remedial activities, beyond the minimal amount described below, will be developed through the cost estimating process required by the NPF. Costs for the initial UST removal, site restoration and disposal of the non-contaminated wastes are the applicant's responsibility. In this case, most of these costs will be paid for by the Program. Subsequent assessment and remedial costs will be eligible for reimbursement by the NPF.

## **2. TANK REMOVALS**

### **2.1 Phase 1: Preliminary Removal Activities**

Phase I includes the following:

- Task 1: UST Size Assessment, Utility Location and Disposal of UST Contents
- Task 2: Tightness Testing and NPF Enrollment
- Task 3: Health and Safety Plan
- Task 4: Tank and Fuel system Removal and Disposal

Tasks 1, 3 and 4 will be coordinated by AMEC with the Program. Task 2 is part of the City of Reno's work scope. The results of Task 2 will determine whether clean-up costs, if any, will be eligible for reimbursement by the NPF. The City of Reno will be responsible for registering the tanks with the NPF prior to removal.

#### **2.1.2 Task 2: Tightness Testing and NPF Enrollment**

AMEC will coordinate the testing of the two USTs by retaining the services of a Nevada certified tank tightness tester. Prior to the tightness testing, the USTs will be emptied. It is assumed the tanks are adequately accessible by the tightness tester. The need to access the top of the USTs before tightness testing would require a separate task and mobilization by the tank removal contractor.



With a passing test, AMEC will prepare the paperwork for the UST to be enrolled in the NPF by submitting an application signed by a representative of the City of Reno (as property and tank owner), the test certificates and the fees of \$100 per UST.

## **2.3 Phase 2: Removal of USTs**

### **2.3.1 Task 1: Contaminated Soil Excavation and Sampling**

The contractor will remove the USTs under the work scope for the Program. However, costs for the following work scope items will be the responsibility of the City of Reno:

- Remove contaminated soil, if any, from the UST, product piping, vents and fuel island excavations as directed by the CEM;
- Assist the CEM in obtaining soil samples for analysis from beneath each UST and from each excavated area to document the condition of the underlying soil.

### **2.3.2 Task 2: Soil Confirmation Testing and Stockpiled Soil Characterization**

#### **2.3.2.1 Soil Confirmation Testing**

Soil samples will be collected from the open excavations (USTs, vent lines, product lines and dispenser islands) to document the condition of the underlying soils with regards to petroleum, and from the pile of excavated soil with regards to disposal analytical criteria. At a minimum, samples from the open excavations will include two each from beneath the USTs (total 4), one per each 20 feet interval along the product piping (4), and four (4) from beneath the fuel island slab. Note that additional sample under the product lines could be required at piping elbows and unions, and anywhere else that evidence of petroleum may be observed. In the event contamination is encountered and additional soil removed after removal of the USTs, an additional minimum two (2) confirmation samples will be collected from the excavation sidewalls. The total minimum estimated number of soil samples is fourteen (14). Samples will also be collected from beneath the vent lines should any evidence of petroleum be noted in the underlying soils. This is an uncommon need, and such samples are not included in the total sample number or in the budget.

Each sample will be analyzed as follows:

- Gasoline range organics (GRO) by EPA Method 8015M
- Diesel and oil range organics (DRO) by EPA Method 8015M
- Benzene, toluene, total xylenes and ethylbenzene (BTEX), and methyl tertiary butyl ether (MTBE), by EPA method 8260



Analyses will be conducted on an expedited basis, with a 24 hour turn-around-time (TAT) to facilitate further site activity, including either additional excavation or site restoration. Rapid TAT is provided at a premium costs over standard TAT. This will reduce the cost of standby of the contractor employees and equipment.

### **2.3.2.2 Stockpiled Soil Characterization**

It is common to have at least some contaminated soil around removed USTs, even if they have passed the tightness tests. The NPF recognizes that removal of limited quantities of accessible contaminated soil by excavation (source reduction) with the equipment already present for the tank removals is typically the most cost-effective form of remediation. Therefore, this work scope includes the removal, characterization and disposal of up to 50 cubic yards or about 62.5 tons (assumed as 1.25 tons/cubic yard) of non-hazardous petroleum contaminated soil. This represents about three truckloads of contaminated soil. Should a release be more extensive, it would then be more cost-effective and preferable to the NPF to assess the extent of the release and evaluate the appropriate response actions.

One composite sample will be collected from the excavated soil stockpile (one per 50 cubic yards). This sample will be analyzed for the acceptance criteria by the Lockwood Landfill and the Nevada Thermal Services (NTS), both of Storey County, Nevada. Both facilities are permitted by the State of Nevada to receive and treat non-hazardous petroleum contaminated soil. The analyses are intended to establish the soil as non-hazardous and to determine the petroleum concentration. Each sample will be analyzed as follows:

- Gasoline range organics (GRO) by EPA Method 8015M
- Diesel and oil range organics (DRO) by EPA Method 8015M
- 11 Volatile organic compounds by EPA method 8260
- 7 TCLP metals by 6020

The analytical results will document whether the soil is hazardous or non-hazardous. Analyses will be conducted on a standard TAT of 10 working days. Faster analysis is available at a premium cost, if needed. Non-hazardous petroleum contaminated soil can be accepted locally at both Lockwood Landfill and NTS. Hazardous wastes cannot be accepted at either facility. It is anticipated that the wastes will be non-hazardous based on the known site use. In the event any waste is found to be hazardous, an appropriately permitted facility will be selected for disposal and/or treatment (see Task 3, below).

### **2.1.3 Task 3: Investigation Derived Waste (IDW) Disposal**

IDW to be disposed include residual fuel, rinsate, sludge, the USTs and piping, contaminated soil, non-contaminated soil, asphalt and concrete. Only the disposal of contaminated soil will be



a cost eligible for reimbursement by the NPF, and therefore falls within the work scope for the City of Reno. The cost of managing the other wastes will be covered by the Program.

If non-hazardous, the petroleum contaminated soil (budgeted for up to 50 cubic yards/62.5 tons) will be transported to either Lockwood Landfill, or to NTS. Treatment at NTS consists of thermal desorption, after which the soil is inert and a non-regulated material. At Lockwood Landfill, the contaminated soil is either directly land filled or bio-treated, depending on the initial concentration of the petroleum. Bio-treating reduces the petroleum concentrations to a level at which the soil can be land filled, which is at or below 600 mg/kg of TPH. Thermal desorption at NTS results in a much lower potential for long-term liability than the management and disposal at the landfill.

If the soil is hazardous, the soil can be transported to the hazardous waste landfill in Beatty, Nevada. The protocol, analyses and costs for disposal of hazardous wastes are not included in this work scope.

The selection of disposal sites will be based on the analytical results, a comparison of disposal costs and preference by the City of Reno. For planning purposes, the attached budget includes the highest anticipated cost (\$60/ton at NTS) for non-hazardous, petroleum contaminated soil.

Based on the facility selection, the UST contractor will provide the loading, transport and delivery services. AMEC will coordinate the activities and obtain the necessary permits and load documentation.

#### **2.4 Phase 3: Technical Memorandum**

AMEC will prepare a technical memorandum that will summarize the work performed and provides the results of UST removals. The sampling and analytical data will be presented in tabular form. Selected, applicable photographs will be attached. In addition, documentation regarding the transportation and disposal of contaminated soil will be included in this document. In the event that contaminated soil is encountered above NDEP thresholds, we will also prepare appropriate NPF documents so the eligible costs for the excavation, transport and treatment/disposal of contaminated soil may be, to the extent allowed, reimbursable. Conclusions will be provided regarding any residual contamination, risk to human health and the environment, as well as recommendations regarding further assessment, remediation and/or closure.



**3. SCHEDULE**

We foresee this phase of work requiring 8 to 12 weeks to complete from notice to proceed to preparation of the technical memorandum. No schedule is provided for assessment, remediation and closure of a significant petroleum release.

**4. FEE**

We estimate the following costs:

**Phase 1: Preliminary Removal Activities**

Task 2: Tightness Testing and NPF Enrollment ..... \$3,930.20

**Phase 2: Removal of USTs**

Task 1: Contaminated Soil Excavation and Sampling  
 Assume 62.5 tons ..... \$3,846.94

Task 2: Soil Confirmation Testing and Stockpiled Waste Characterization ..... \$8,222.75

Task 3: Investigation Derived Waste Disposal  
 (non-hazardous, petroleum contaminated soil)  
 NTS 62.5 ton x \$105.35/ton ..... \$6,811.59  
 (Lockwood Landfill 50 cy x \$43.48/cy ..... \$4,571.88)\*  
 CEM Services ..... \$2,172.00

Task 3 Subtotal ..... \$8,983.59

**Phase 3: Technical Memorandum ..... \$4,020.00**

**Estimated Project Total ..... \$29,003.48**

\* A detailed accounting of costs is provided on the attached spreadsheets. The higher cost of NTS is included in the estimated project total for budgeting purposes. The Lockwood Landfill cost is for comparison purposes. Actual disposal/treatment costs may vary based on time elapsed between bid dates and the time services are rendered, primarily due to fluctuating energy (fuel) costs.



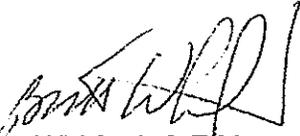
**5. CLOSING**

Upon your acceptance of this document, we understand that we will receive a notice to proceed. This notice to proceed will reference our professional services agreement with the City of Reno and this document will be attached as reference. We look forward to serving you and thank you for your trust in us to help you deliver this project to the City of Reno and the local community.

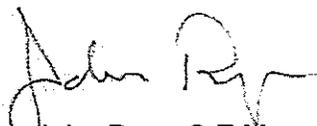
Respectfully submitted,

**AMEC Earth & Environmental, Inc.**

Reviewed by,



Brett Whitford, C.E.M.  
Environmental Services Manager



John Dyer, C.E.M.  
Senior Project Manager

BW/JD/mm

c: Lisa Johnson, Nevada Brownfields Program

Enclosures



March 14, 2008  
AMEC Proposal No. PN08-2-11, Revision 2

Nevada Division of Environmental Protection  
901 South Stewart Street, Suite 4001  
Carson City, Nevada 89701

**Attention: Ms. Lisa Johnson  
Environmental Scientist**

**Re: STATEMENT OF WORK  
Underground Storage Tanks Removal  
1405 Oliver Street  
Reno, Washoe County, Nevada**

Dear Ms. Johnson:

The following presents AMEC Earth & Environmental, Inc.'s (AMEC's) scope of work, schedule and fees to assist the Nevada Division of Environmental Protection (NDEP) Brownfields Program (the Program) with removal of two underground storage tanks (USTs) at the referenced location. Our proposed scope of work is based on our review of a Phase I Environmental Site Assessment, dated June 11, 2007, prepared by MACTEC Engineering and Consulting, Inc., for the City of Reno. AMEC received and reviewed the application for Brownfield assistance prepared by the City of Reno and submitted to NDEP. AMEC also attended a meeting with representatives of the City of Reno, the Program and the Nevada Petroleum Fund (NPF) at the NDEP office in Carson City on February 21, 2008. The purpose of this meeting was to discuss the project work scope, the funding by the Program, and the availability of NPF reimbursement funding if a petroleum release is found.

## **1. SCOPE OF WORK**

### **1.1 Background and Project Description**

#### **1.1.1 Background**

The Program has requested that AMEC assist with the removal of two USTs at the referenced property so the site may be redeveloped by the City of Reno. The site was used as a gas station and food store (Mini-Mart #1) from 1967 to about 1972, and miscellaneous non-food, non-fuel businesses thereafter. The site still contains two USTs, product piping, fuel island slab and vent lines. The dispensers are no longer present. Based on a brief visual inspection of the UST fill ports, each UST appears to be full of fuel, and the fuel appears to be gasoline. However, the size of the USTs and the actual volume of fuel could not be determined. It is estimated that each UST volume is either 5,000 or 10,000 gallons.



The Program will cover the costs of the removal of the USTs. Portions of the costs of assessment and remediation of a petroleum release is anticipated to be eligible for reimbursement by the NPF to the City of Reno.

### **1.1.2 Project Description**

We anticipate three separate phases to the project as outlined below:

- Phase 1: Preliminary Removal Activities
- Phase 2: Removal of USTs
- Phase 3: Technical Memorandum/Scope of Work

It is understood that the cost of removal of the USTs, the product piping, the fuel island slab and the vent lines, disposal of the UST contents and non-contaminated wastes, and restoration of the site will be covered by the Program. This does not; however include soil sample analyses and UST tightness testing. AMEC, as an approved Brownfields Program contractor, will contract with the Program to oversee the UST removal activities. The services will be conducted and/or overseen by a Nevada Certified Environmental Manager (CEM). AMEC provides the Program this statement of work for these services.

In the event a release of petroleum is discovered during UST removal, the subsequent assessment and abatement may be eligible for reimbursement of approved costs from the NPF. AMEC will contract with the City of Reno to oversee these activities.

The work scopes for the City of Reno and for the Program will be performed concurrently, and AMEC will track the effort and costs separately.

### **1.1.3 Subcontractors and Bids**

Bids have been acquired from three Nevada certified tank handlers, and from Nevada Underground Location, of Carson City, Nevada. BRAMCO Construction of Sparks, Nevada, provided the most responsive bid. The bid specifications include:

#### **BRAMCO**

- Provide USA notification for utilities;
- Remove of two 10,000-gallon USTs and contents, assumed full of gasoline; product lines, vent lines and fuel island slab;
- Restore the excavations with imported gravel, compacted aggregate and new asphalt (product lines and dispenser slab area); and
- Dispose of various waste materials.



## **NUL**

- Evaluate the size of the USTs and locate all accessible site utilities.

## **2. TANK REMOVALS**

### **2.1 Phase 1: Preliminary Removal Activities**

#### **2.1.1 Task 1: UST Size Assessment, Utility Location and Disposal of UST Contents**

To focus the removal costs and requirements, and to enhance the project safety, the USTs will be assessed for contents and size, and the site will be assessed for underground utilities. It is currently estimated that the USTs may be as large as 10,000 gallons in capacity, and each appears to contain a mix of water and gasoline. The USTs will be further assessed by retaining a geophysical specialist, Nevada Underground Location, NUL, who will assess the approximate width and length dimensions of each tank, and search the site for underground utilities. NUL will mark the outline of the tanks at the surface with paint, as well as the approximate locations of all underground utilities.

#### **2.1.2 Task 2: Remove and Dispose of UST Contents**

The liquid from the USTs will be removed and disposed in advance of the tank tightness testing. Given a possible volume of 10,000 gallons per UST, it is possible for the USTs to have as much as 21,000 gallons of liquid. The UST contractor will arrange to have the liquid pumped out and transported for recycling to a Nevada approved facility.

#### **2.1.3 Task 3: Health and Safety Plan**

AMEC will prepare a Health and Safety Plan (HASP) for the overall project as part of this phase of work. The HASP will cover all the work to be performed in the process of completing the three phases listed above.

### **2.2 Phase 2: Removal of USTs**

#### **2.2.1 Task 1: Removal of USTs and Site Restoration**

The contractor will remove the USTs according to the following protocol:



- Triple rinse the USTs and appropriately label, transport and dispose of said rinsate (up to 600 gallons);
- Uncover the USTs by removing overlying soil sufficient to access the UST tops;
- Inert the tanks to minimize internal flammable vapor build-up and the potential for ignition;
- Monitor UST interiors for fuel vapor concentration;
- Excavate soil from around the USTs sufficient to remove them;
- Remove, transport and dispose of the USTs via recycling (up to 10,000 gallon capacity, each);
- Excavate and remove the product piping between the USTs and the former fuel island (up to 160 linear feet), and remove and dispose of the concrete fuel island pad;
- Excavate and remove the UST vents (up to 60 linear feet);
- Stockpile and cover with plastic excavated soil on-site for subsequent disposal;
- Assist the CEM in obtaining soil samples for analysis from beneath each UST and from each excavated area to document the condition of the underlying soil;
- Transport and dispose of non-contaminated wastes (soil, asphalt and concrete) at Lockwood Landfill as standard construction waste;
- Restore the various excavations by placing gravel from total depth to 4 feet below site grade, then placing aggregate base from four feet below grade to site grade;
- Conduct equipment-only compaction on the aggregate base; replace asphalt on the product piping and fuel island excavated areas; and restore the UST and vent pipe excavation areas to the pre-existing soil surface;
- Provide security fencing around the work site, and additional security fencing around the UST excavation.

It is assumed that sludge in the UST bottoms will not be encountered in sufficient volume to require separate removal and disposal, and that it can be managed as part of the UST. Therefore no separate cost has been assigned to sludge disposal. The site will have a perimeter work-area fence and a second one around the open UST excavation. Contractor will de-mobilize equipment from the site at the end of each working day. AMEC personnel will monitor soil during excavation for evidence of petroleum in soil, and to assist in segregating clean soil from contaminated soil.

### **2.3 Phase 3: Technical Memorandum**

AMEC will prepare a technical memorandum that summarizes the work performed and provides the results of UST removals. Selected, applicable photographs will be attached. Conclusions will be provided regarding any residual contamination and risk to human health and the environment. Recommendations will be provided regarding further assessment, remediation and/or closure, and funding through the Nevada Brownfields Program should site conditions be such that these actions are not eligible for reimbursement, in whole in part, under the NPF.



**3. SUBCONTRACTORS**

Subcontractors include Nevada Underground Location for utility location services and BRAMCo Construction for UST removals and site restoration.

**4. SCHEDULE**

We foresee this phase of work requiring 8 to 12 weeks to complete from notice to proceed to preparation of the technical memorandum.

**5. FEE**

We estimate the following costs:

**Phase 1: Preliminary Removal Activities**

Task 1: UST Size Assessment and Utility Location .....	\$2,329.80
Task 2: Remove and Dispose of USTs Contents .....	\$21,877.72
Task 3: Health and Safety Plan .....	\$3,095.64

**Phase 1 Total..... \$27,303.16**

**Phase 2: Removal of USTs**

Task 1: Removal of USTs and Site Restoration	
BRAMCO-Two 10,000-gallon USTs .....	\$27,867.00
CEM Services .....	\$7,579.10

**Phase 2 Total..... \$35,446.10**

**Phase 3: Technical Memorandum..... \$4,649.06**

**Estimated Project Total..... \$67,398.32**

A detailed accounting of costs is provided on the attached spreadsheets. The higher cost for two 10,000-gallon USTs (contents and removal) is included in the estimated project total for budgeting purposes. Actual disposal/treatment costs may vary based on actual volume of the USTs and contents, as well as fluctuating energy (fuel) costs.



**6. CLOSING**

Upon your acceptance of this document, we understand that we will receive a notice to proceed. This notice to proceed will reference our agreement with NDEP and this document will be attached as reference. We look forward to serving you and thank you for your initial trust in us to deliver this project to the City of Reno and the local community.

Respectfully submitted,

**AMEC Earth & Environmental, Inc.**

Reviewed by,

A handwritten signature in black ink, appearing to read "Brett Whitford".

Brett Whitford, C.E.M.  
Environmental Services Manager

A handwritten signature in black ink, appearing to read "John Dyer".

John Dyer, C.E.M.  
Senior Project Manager

BW/JD/mm

Enclosures

c: Jodi Royal-Goodwin, City of Reno Redevelopment Agency



## **APPENDIX B**

### **HEALTH AND SAFETY PLAN**



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## **HEALTH AND SAFETY PLAN**

**CITY OF RENO  
UNDERGROUND STORAGE TANK REMEDIATION  
PROJECT LOCATION: FORMER MINI-MART #1  
1405 OLIVER STREET  
RENO, WASHOE COUNTY, NEVADA**

**Submitted by:**

**AMEC Earth & Environmental, Inc.  
780 Vista Boulevard, Suite 100  
Sparks, Nevada 89434**

**April 2008  
AMEC Project No. 8-417-000843**



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### ATTACHMENTS

Material Safety Data Sheets  
AMEC Incident Reporting Form



AMEC EARTH & ENVIRONMENTAL, INC.

CORPORATE SAFETY HEALTH AND ENVIRONMENTAL (SHE) POLICY

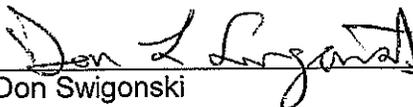
This policy applies to all AMEC Earth and Environmental, Inc. (AEE) operations wherever they are carried out. AEE considers effective safety, health and environmental management to be of prime importance to its business and is committed to continuous improvement in performance in all these areas.

AEE assigns the highest priority to the safety and health of personnel assigned to work for AEE or at our projects and to the protection of the general public and environment. The prevention of occupationally induced injuries and illnesses is of such value that it will be given priority over operating productivity where necessary. AEE strongly believes that *that every accident, injury and occupational illness is preventable*. AEE's overall goal is to protect both people and the environment and have zero accidents, injuries and occupational illnesses.

OUR GOAL IS ZERO

ACCIDENTS, INJURIES AND OCCUPATIONAL ILLNESSES

Prepared by:

  
Don Swigonski

Safety, Health and Environment Coordinator

Date:

4-22-08

Reviewed /  
Accepted by:

  
John Dyer  
Senior Project Manager

Date:

4-22-08



## I. PROJECT INFORMATION

### A. Project Description

Work consists of removal of two (2) Underground Storage Tanks (USTs) in April 2008 located at 1405 Oliver Street in Reno, Nevada (Site). The Site is the location of the former Mini-Mart #1 that operated from about 1967 to 1972. The City of Reno has retained AMEC Earth and Environmental (AMEC/AEE) to provide field oversight and gather information/documentation for the City. The removal of the USTs will be completed by a Bramco, a Nevada Department of Environmental Protection (NDEP) certified UST Tank Service Provider. The contact person and Field Manager for Bramco is Mike Cecchi. The AMEC contacts are John Dyer, Project Manager for the project and Don Swigonski, Safety Coordinator for Reno's Sparks Nevada Office.

The scope of work includes the removal of the USTs, the product piping, the fuel island slab and the vent lines, disposal of the UST contents and non-contaminated wastes, and restoration of the site. A minimum of 14 soil samples will be collected from the UST excavation, piping trenches and pump islands. Samples will be analyzed for gasoline range organics (GRO) by EPA Method 8015M, diesel and oil range organics (DRO) by EPA Method 8015M, and benzene, toluene, ethylbenzene and xylene (BTEX) and methyl tertiary butyl ether (MTBE), by EPA method 8260.

Health and safety concerns include the use of heavy equipment and hazardous atmosphere from volatile organic compounds (VOCs) and diesel. Operations include heavy parts and equipment lifting with proper chains and sling techniques. Work activities include:

- Mobile surface equipment
- Excavation of soil to access the USTs
- Hoisting and removal of two (2) USTs from the excavated area
- Placement of the USTs on the ground/concrete/asphalt with spill containment controls
- Loading of the USTs on a flat bed semi tractor trailer/commercial trailer

There are no overhead power concerns are evident at the worksite. Personal Protective Equipment (PPE) shall consist of hard hats, steel-toe safety shoes, hearing protection, safety glasses, fluorescent-colored safety vests, and nitrile gloves (if contaminated soil is suspected). All personnel (AMEC, Bramco and other authorized individuals/subcontractors) must wear the proper PPE during all UST removal operations.



**B. AMEC Safety Personnel**

The following table is a list of AMEC safety personnel and their contact information.

Name	Title	Office Location	Telephone Numbers	
			Office	Cell
Chad Barnes	Southwest Region Safety Coordinator	1405 West Auto Drive Tempe, AZ 85284	(480) 940-2320	
Don Swigonski	Sparks, Nevada Coordinator	780 Vista Boulevard Sparks, NV889434	(775) 331-2375	(775) 813-0041
	SHE Coordinator (Nevada)			
Brett Whitford	Environmental Unit Manager	780 Vista Boulevard Sparks, NV889434	(775) 331-2375	((775) 233-3798
John Dyer	Project Manager	780 Vista Boulevard Sparks, NV88943	(775) 331-2375	(775) 770-0035

Chad Barnes is the Southwest Region Safety Coordinator. Don Swigonski is the local Safety, Health, and Environment (SHE) Coordinator for the Sparks office of AMEC. The Southwest Region Safety Coordinator is responsible for administration of AMEC's health and safety program for all of AMEC's Southwest US offices. The SHE Coordinator is responsible for the AMEC Sparks office. Brett Whitford is the Environmental Unit Manager. John Dyer is the Project Manager (PM) for the Site. The AMEC SHE Coordinator along with the Site Health and Safety Coordinator (SHSC) are responsible for preparation of the Health and Safety Plan (HSP), assessment of chemical hazards, and selection of safety/monitoring equipment necessary for the project. The PM has overall responsibility for project operations, and as such, is responsible for providing a safe work environment. John Dyer will act as the SHSC. The SHSC has the responsibility of implementing the site HSP while at the site. If the plan is not being implemented or if unanticipated situations arise, the SHSC may stop all activities and order all personnel to depart the site. The SHSC will have charge of all instruments and see to their proper use and function.



## II. EMERGENCY CONTACT INFORMATION

Name	Telephone Number
St. Mary's Hospital	(520) 872-3000
Fire	911
Police	911
Poison Control Center	1-800-222-1222
NDEP	1-775-687-4670
AMEC E&E, Sparks	(775) 331-2375
Chad Barnes, AMEC, Tempe, AZ	(480) 940-2320
John Dyer, PM, AMEC, Sparks	(775) 770-0035 Cell
City of Reno Contact Jodi Royal-Goodwin	(775) 334-2305
Don Swigonski, AMEC, Sparks	(775) 813-0041 Cell
Mike Cecchi, Bramco	(775) 741-7610

Note: The Southwest Region Safety Coordinator, SHE Coordinators, PM and/or SHSC are to be notified immediately if site conditions not anticipated in this document are encountered.



---

### **III. EMERGENCY INFORMATION**

#### **A. Emergency Medical Help**

If the injury is life-threatening, follow steps 1 through 8 below. If the injury is not life-threatening, perform necessary first aid and consider the need for decontamination prior to transport.

1. Perform first aid necessary to assess the victim(s) medical status.
2. Call emergency transport.
3. Give specific directions to location of emergency.
4. Give phone from which you are calling.
5. Tell emergency services what happened. Inform that victim(s) may be wearing contaminated clothing.
6. Inform emergency services how many persons need help.
7. Inform emergency services what is being done for the victim(s).
8. Stay on telephone until told to hang-up.

#### **B. Directions to Nearest Hospital**

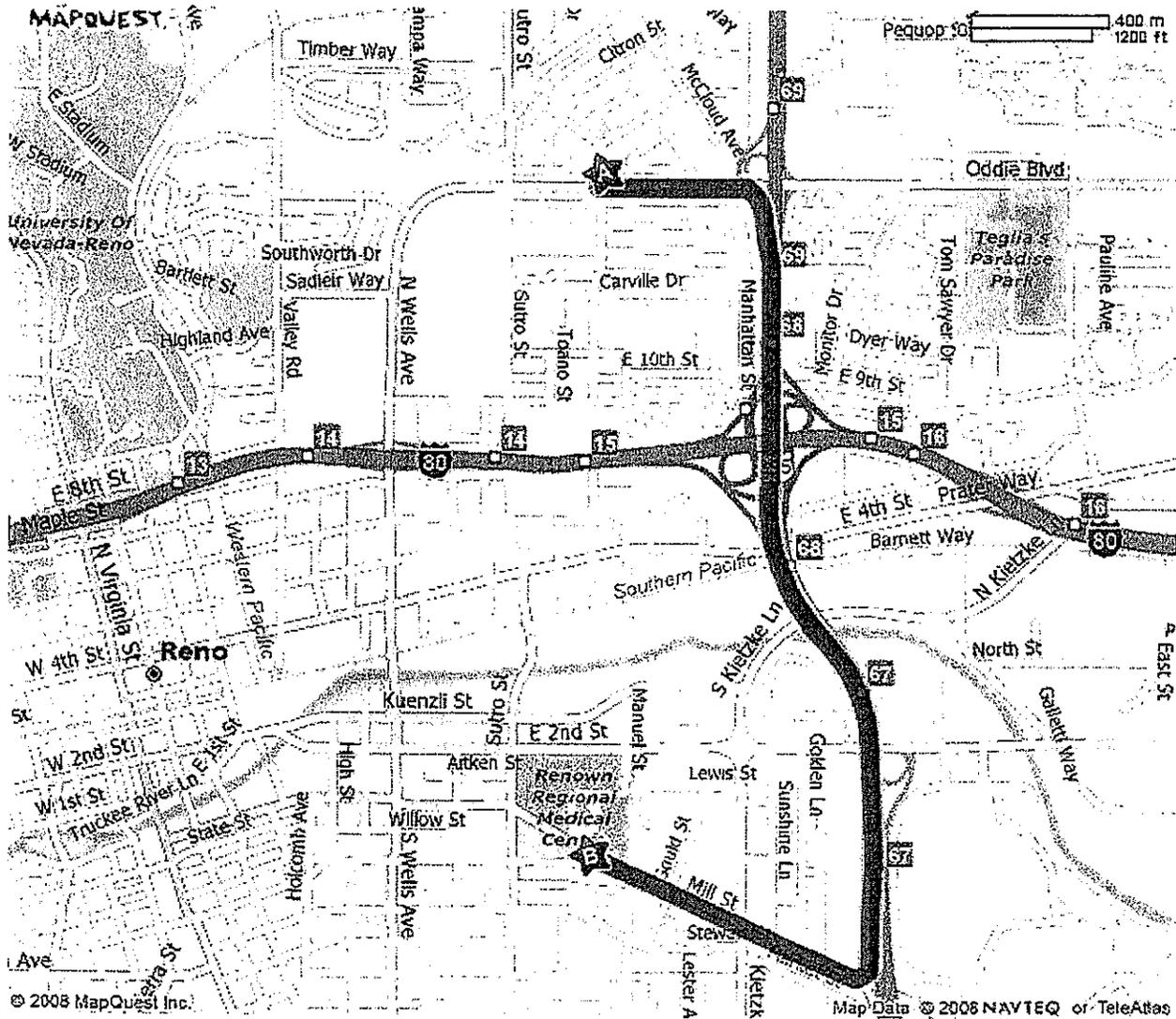
Renown Regional Medical Center is located at 1155 Mill Street, Reno, Nevada (775) 982-4100.

1. Go west on Oliver to Montello Street
2. Turn left onto Montello
3. Turn left on Oddie Boulevard (0.3 mi.)
4. Merge onto US 395 south for 1.6 miles
5. Take the Mill Street exit (exit 66) and keep to the right to Mill Street
6. Go 0.7 miles to Renown Regional Medical Center.

A hospital map and is shown on **Page 5** of this HSP.

### C. Hospital Maps

The following is a map showing the shortest route to Renown Regional Medical Center, 1155 Mill Street, Reno, Nevada.





#### **IV. EMERGENCY PROCEDURES FOR EXPOSURE**

~~In all emergencies, document the action(s) taken and notify the Southwest Region Safety Coordinator, SHE Coordinators, Environmental Unit Manager, and PM of the emergency and the actions taken.~~

##### **A. Hazard Exposures**

Skin: Remove contaminated clothing immediately; wash with soap and water.

Inhalation: Remove to fresh air. If necessary, call emergency medical help (ambulance, hospital, and police) and follow medical emergency help procedures in Section V.

Eye Contact: Flush with eye wash fluid or water for at least 15 minutes. Follow emergency medical help procedures in Section V, if indicated. Contaminants may be absorbed through the eyes.

Ingestion: Obtain medical help, if indicated.

Injuries: Administer first aid, if necessary. Follow emergency medical procedures in Section V, if necessary. Medical emergencies take precedence over decontamination.

##### **B. Fire/Explosion**

A fire extinguisher will be kept on site with the support truck. Conditions on the site may change due to weather, temperature, and season. If a fire or explosion occurs, evacuate the area and immediately call 911.

##### **C. Accidental Spill/Release**

1. Pick up, isolate, or contain small (less than 10 gallon) spills.
2. Evacuate area, if necessary.
3. Contact emergency agencies, if necessary.

##### **D. Unanticipated Conditions**

1. Suspend all non-emergency activities.
2. Notify the SHE Coordinators and PM immediately. Do not restart planned operations in the area until authorized by the SHE Coordinator and PM.
3. If the unanticipated condition is the presence of unidentifiable non-hydrocarbon related contaminants, then site conditions, required PPE level and action levels will have to be reevaluated by the SHE Coordinator, PM and SHSC prior to restarting planned operations.



**V. EMERGENCY INCIDENT PROCEDURES**

1. Supervisor on duty must immediately call 911 or local emergency number.
2. Once medical attention is sought and provided, the supervisor must contact the WorkCare 24/7 Hotline at (800) 455-6155. WorkCare will be responsible for performing the following duties:
  - Contact the treating physician
  - Inform the physician of the injury/illness
  - Request to be consulted on treatment
  - Determine appropriateness of treatment
  - Request copies of all medical records from clinic
  - Remind the treating physician of the care management philosophy
  - Send an email update to the Corporate Safety contact
3. IMMEDIATELY after contacting WorkCare inform verbally (direct contact is required) ONE of the following AMEC individuals:

Name	Telephone Numbers		
	Office	Cell	Home
Vlad Ivensky	(610) 877-6144	(267) 736-0631	215-947-0393 (can call 24/7)
Gabe Sandholm	(425) 820-4669 x3134	(425) 698-9156	
Lisa Aweeka	(425) 820-4669 x3166		
Lori Dowling	(250) 564-3243		
Tim Kihn	(780) 464-4550 x236		

4. Local SHE Coordinator to complete the initial *Incident Report* within 24 hours and forward to the Corporate SHE Department.
5. Corporate Human Resources (HR) to complete Worker's Compensation Insurance notifications.
6. Corporate SHE to conduct further incident investigation and develop internal communications.



**VI. NON-EMERGENCY INCIDENT PROCEDURES**

Steps 1 and 2 must be completed before seeking medical attention other than the local first aid.

1. Report the situation to your immediate supervisor AND safety coordinator (all incidents with the clear starting event should be reported within 1 hour of occurrence).
  
2. Call the WorkCare 24/7 at Hotline (800) 455-6155. WorkCare will assess the situation telephonically and determine whether the incident requires medical attention. During this process, the WorkCare will perform the following duties:
  - Explain the process to the caller
  - Determine the nature of the concern
  - Provide appropriate medical advice to the caller
  - Determine appropriate path forward with the caller
  - Maintain appropriate medical confidentiality
  - Help caller to execute path forward, including referral to the appropriate local medical facility
  - Send an email notification to the corporate safety contact
  
3. Within 2 Hours of the incident inform verbally (direct contact is required) ONE of the following AMEC individuals:

Name	Telephone Numbers		
	Office	Cell	Home
Vlad Ivensky	(610) 877-6144	(267) 736-0631	215-947-0393 (can call 24/7)
Gabe Sandholm	(425) 820-4669 x3134	(425) 698-9156	
Lisa Aweeka	(425) 820-4669 x3166		
Lori Dowling	(250) 564-3243		
Tim Kihn	(780) 464-4550 x236		



4. Local SHE Coordinator to complete the initial *Incident Report* within 24 hours and forward to the Corporate Safety, Health, and Environment (SHE) Department.

5. Corporate Human Resources (HR) to complete Worker's Compensation Insurance notifications.

6. Corporate SHE to conduct further incident investigation and communicate as needed.

## VII. HAZARD ASSESSMENT

Based upon the past history of the site and upon the types of activities to be performed, the following types of hazards may be encountered:

- Physical
- Chemical
- Utilities
- Respiratory
- Mechanical

Based upon AMEC's preliminary assessment, the proper PPE to be employed at this site is **Level D** protection (See Section VIII for list of PPE protection levels). A Material Safety Data Sheet (MSDS) for diesel fuel (all types) is included as an Attachment in this HSP.

### A. Action Levels

#### a. Physical

The physical hazards that may be encountered include noise, manual lifting, slips, trips, falls, heavy equipment operation, and weather related hazards (heat, rain, wind). Hard-hats, safety glasses, hearing protection and steel-toed safety shoes/boots will be required for all personnel working in the vicinity of heavy equipment and on the Site.

The SHSC has responsibility for ensuring that all on-site AMEC personnel perform work tasks in a safe and sensible manner. The safe operation of heavy equipment will be the responsibility of Bramco and their equipment operator. All equipment will be inspected daily by Bramco to assure that the equipment is in good working order, including, but not limited to, hydraulic hoses, belts, cables, chain links and hoist hooks. If at any time the SHSC concludes that safe work practices are not followed, the tasks will be suspended and corrective actions will be taken.



Subsurface explorations may encounter concentrations of combustible vapors. For those sites with the potential for ignition of concentrations of combustible vapors, ignition of combustible vapors must be guarded against. This will be accomplished by using the combustible gas indicator (CGI) to monitor methane and to re-assess operations if the meter indicates the presence of 20% of the lower explosive limit (LEL) for methane.

**b. Chemical**

Chemical hazards that may be encountered include gasoline, benzene, toluene, ethyl benzene. Chemical hazard information is shown in the following table.

Chemical	PEL/TLV	IDLH	Warning Property	Exposure Route	Acute Health Effects	Chronic Health Effects
Benzene	TWA 1 ppm	500 ppm	Odor	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation of eyes, skin, respiratory system	Potential carcinogen
Ethyl benzene	TWA 100 ppm	800 ppm	Aromatic odor	Inhalation, ingestion, skin and/or eye contact	Irritation of eyes, skin, and mucous membrane, headache	Prolonged irritation of eyes, skin, and mucous membrane, headache, chances of narcosis and coma
Toluene	500 ppm (10-minute maximum peak)	500 ppm	Sweet, pungent odor	Inhalation, skin absorption, ingestion, skin and/or eye contact	Irritation of eyes, skin, respiratory system	Liver and kidney damage
Gasoline	300 ppm (8-hour TWA) 500 ppm (15 min STEL)	Not Established	Distinct Odor at 0.25 ppm	Inhalation	Intoxication, headaches, blurred vision, dizziness, and nausea	Eye, nose, and throat irritation, dizziness, anesthesia, intoxication, possible kidney damage
PEL/TLV - Permissible Exposure Limit/Threshold Limit Value IDLH - Immediately Dangerous to Life and Health ppm - parts per million TWA - Time Weighted Averages STEL - Short Term Exposure Limit						



**c. Utilities**

Where there are overhead power lines in the vicinity of the site, they must be carefully avoided. For overhead lines, a good 'rule-of-thumb' is for all masts, buckets of backhoes/trackerhoes, and front-end loaders to remain at least 20 feet away from lines carrying 125,000 volts, 30 feet from lines carrying up to 250,000 volts and 40 feet from lines carrying over 250,000 volts.

In the case of damage to an underground utility, safe exit and closure of the work area and/or site to the public (if necessary) should be completed prior to contacting the appropriate utility agency for repair/closure of utility line.

**d. Respiratory**

High concentrations of Volatile Organic Compounds (VOCs) and other airborne contaminants in the atmosphere present a hazard to the respiratory system. If VOCs are suspected, AMEC personnel can perform volatile organics screening and headspace analysis to preliminarily assess VOCs. Volatile organics screening and headspace analysis of samples shall be performed using a FID or similar instrument.

Volatile organics screening and headspace analysis is intended as a field screen for the presence of VOCs. The method measures the presence or absence of volatile constituents in the headspace (air) above a soil sample. Various factors affect the level of VOCs volatilizing from soils such as concentration in the soil, temperature of the soil and air, organic carbon content of the soil, equilibration time, moisture content of the soil, and the chemical and physical characteristics of the VOCs. Therefore, headspace readings can only be regarded as qualitative assessments of volatiles, and caution should be exercised if using this technique to select samples for analytical testing. OVA and PID readings can vary because the two instruments have different sensitivities to the various VOCs and are usually calibrated relative to different gas standards (i.e., methane for the Organic Vapor Analyzer (OVA) and isobutylene for the PID).

In order to screen samples for VOCs, the instrument probe shall be inserted into the top of the sample liner immediately after the sampler is opened. The instrument response (normally in parts per million [ppm]) is then recorded in the field notebook and/or the field log.

For headspace analysis, a portion of the sample is transferred into a zip lock bag or pre-cleaned glass jar, which is then sealed and agitated. The VOCs are allowed to volatilize into the headspace and equilibrate. The instrument probe is then inserted into the container to sample the headspace. The instrument response is then recorded in the field notebook and/or the field log.



**e. Mechanical**

Mechanical hazards include moving heavy equipment, cranes, booms, slings, hoists, backhoe equipment, and commercial transport vehicles/trailers. Hard-hats, safety glasses, hearing protection and steel-toed safety shoes/boots will be required for all personnel working in the vicinity of heavy equipment and on the Site.

The SHSC has responsibility for ensuring that all on-site AMEC personnel perform work tasks in a safe and sensible manner. The safe operation of heavy equipment will be the responsibility of Bramco and their equipment operator. All equipment will be inspected daily by Bramco to assure that the equipment is in good working order, including, but not limited to, hydraulic hoses, belts, cables, chain links and hoist hooks. If at any time the SHSC concludes that safe work practices are not followed, the tasks will be suspended and corrective actions will be taken.

**Job Hazard Analysis Table**

HAZARD	Driving/ Vehicle Operation	Moving Vehicle	Electrical	Radiation	Confined Space	O <sub>2</sub> Deficiency	Hazardous Atmospheres	Vagrants	Scaffolding/ Heights	Wildlife	Disgruntled Landowners	Weather	Trenching Hazards	Drilling Equipment	Noise	Overhead Hazards	Slipping/ Tripping
Travel to Site	●	●								*		*					*
Work/ Project Oversight	●	●	*				*	*		*		*	●		●	●	●

● = specific hazard is expected to be encountered for the designated activity  
 \* = specific hazard may be encountered for the designated activity

**VIII. PERSONAL PROTECTION LEVEL**

The SHSC is responsible for ensuring the health, safety, and efficiency of the project team. The level of PPE necessary for the health and safety of the project team will be determined by the SHSC based upon the above action plan and any overt signs of hazards to life and health.

Any AMEC team member can seek to upgrade the level of protection established by the SHSC. This will be accomplished through consultation with the SHSC and an agreement will be reached before the team member enters the work area. Under no circumstances will AMEC team members downgrade the level of personal protection selected by the SHSC. The level of protection selected for this site is **Level D**.



All personnel entering controlled work zones will initially be required to wear the U.S. Environmental Protection Agency (EPA)/OSHA Level of Protection. Protection may be upgraded or downgraded depending upon monitoring data (compared with action levels) and Site conditions, as determined by the SHSC. The following outlines the minimum guidelines for each level of protection that is assigned. The following is a list of PPE levels:

**A. Level D PPE**

- Work shirt and full-length pants or coverall
- American National Standards Institute (ANSI) standard safety-toe work boots with metatarsal protection
- ANSI standard hard hat (when working around heavy equipment or overhead "bump" hazards)
- ANSI standard safety glasses
- EPA-approved hearing protectors (when working in high noise areas)

**B. Modified Level D PPE**

- Level D equipment
- Tyvek® Tychem SL coverall or equivalent
- Outer and inner nitrile gloves
- Disposable boot covers if not attached to coveralls

**C. Level C PPE**

- Modified Level D equipment, with taping of coverall to boots and gloves, as necessary
- National Institute for Occupational Safety and Health (NIOSH)-approved, full-face air-purifying respirators

**D. Level B PPE**

- Modified Level D equipment, use of chemical-resistant coverall, taped to boots and gloves
- NIOSH-approved, pressure-demand, full-face piece, self-contained breathing apparatus (SCBA) or pressure-demand supplied-air respirator with escape-SCBA (additional employee training is required for Level B operations)

**E. Level A PPE**

- Level B equipment, use of fully-encapsulating suit



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## **IX. SUBCONTRACTORS**

All subcontractors are required to provide AMEC with a copy of their company's site-specific health and safety plan prior to beginning fieldwork. The subcontractor will also be required to abide by this HSP and any other rules initiated by AMEC.

## **X. SITE CONTROL**

The following work areas will be established:

- A hotline will be established 15 feet from the excavation equipment and the USTs. The area inside this line will be considered the "hot zone". Only persons actively performing work will be allowed within the hot zone.
- Personnel decontamination will not be required for this project.

## **XX. SITE SECURITY**

No unauthorized persons will be allowed in the hot zone. Unauthorized persons are those without appropriate training, without proof of medical surveillance, and those with no authorization to be on or near the site. Any pedestrians who walk through the project site will be verbally warned to stay clear of the excavated areas. If necessary, red or orange flags will be placed at least 10 feet from the excavated areas to keep pedestrians out of unauthorized areas.

## **XXX. TRAINING**

Certificates of successful completion of AMEC personnel 40-hour HAZWOPER training will be maintained at the AMEC Sparks office and will be produced for regulatory authorities upon request.

## **XL. MEDICAL SURVEILLANCE**

Evidence of a current physical examination in the form of a letter from an examining physician will be maintained at the office and will be available to regulatory personnel upon request.



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**L. ADDITIONAL INFORMATION**

MSDS sheets are attached to this HSP for the anticipated chemicals of concern at the Site. An AMEC Incident Reporting Form is also attached.

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**LX. ACKNOWLEDGEMENT FORM**

The content of this HSP will be discussed in detail at the start of the project with all site personnel during a safety meeting held at the site. The SHSC shall document attendance at this meeting and content of the meeting. All site personnel will be expected to sign an acknowledgment form. If other contractors have a separate safety plan, a copy of that plan must be given to the SHSC at this meeting. A tailgate safety meeting must be performed each day prior to starting the day's activities and a Tailgate Safety Form (must be signed by all personnel on the Site).



# Supervisor's Report of Injury or Illness



**Note:** To prevent accidents, it is necessary to know how and why they occur. Please complete both sides of this report. State facts as accurately as possible. Accurate reporting of all facts will help in the preparation of the "Employer's Report."  
 Submit your complete report within 24 hours to Human Resources, your SHE Coordinator, and the Corporate SHE Director.

Name of injured employee		Department in which regularly employed	
Injury date	Time of injury <input type="checkbox"/> AM <input type="checkbox"/> PM	Date and time employer was notified of injury	
Did accident occur on employer's premises? <input type="checkbox"/> YES <input type="checkbox"/> NO	Where? (specify dept., job site, etc.)	Name of witness	
What was employee doing when injured? (walking, lifting, operating machines, etc.) Be specific.			
Please describe fully the events that resulted in injury or occupational disease. Tell what happened and how it happened. (Do not describe nature of injury)			
What machine, tool, substance, or object was most closely connected with the injury? (e.g., machine the employee struck against or was struck by; the chemical in use; the object the employee was lifting, pulling, etc.)			
Nature of injury and part of body affected.			
<b>Causes of Accident: Check All That Apply</b>			
<b>Unsafe Building or Working Conditions</b> <input type="checkbox"/> Layout of Operations <input type="checkbox"/> Layout of Machinery <input type="checkbox"/> Unsafe Processes <input type="checkbox"/> Improper Ventilation <input type="checkbox"/> Improper Sanitation/Hygiene <input type="checkbox"/> Improper Light <input type="checkbox"/> Excessive Noise <input type="checkbox"/> Floors or Platforms <input type="checkbox"/> Miscellaneous  <b>Housekeeping</b> <input type="checkbox"/> Improperly Piled or Stored Material <input type="checkbox"/> Congestion	<b>Physical Hazards or Equipment</b> <input type="checkbox"/> Ineffectively Guarded <input type="checkbox"/> Unguarded <input type="checkbox"/> Guard Removed <input type="checkbox"/> Defective Tools <input type="checkbox"/> Defective Machines <input type="checkbox"/> Defective Materials  <b>Discipline</b> <input type="checkbox"/> Not Following Safety Rules <input type="checkbox"/> Horseplay  <b>Apparel or Personal Protective Equipment</b> <input type="checkbox"/> Protective Equipment Not Used <input type="checkbox"/> Unsuitable Protective Equipment <input type="checkbox"/> Unsuitable Clothing or Footwear	<b>Instructions and Training</b> <input type="checkbox"/> None <input type="checkbox"/> Incomplete <input type="checkbox"/> Erroneous <input type="checkbox"/> Not Following Instructions <input type="checkbox"/> Operating Without Authority <input type="checkbox"/> Working at Unsafe Speed <input type="checkbox"/> Inexperience <input type="checkbox"/> Untrained in Procedure <input type="checkbox"/> Incorrect Use of Tool or Equipment <input type="checkbox"/> Improper Judgement <input type="checkbox"/> Improper Lifting <input type="checkbox"/> Lifting Excessive Weight	
What can be done to prevent such an accident from happening again?			
Approximate date condition will be corrected?			

## Additional Information



**NOTE:** The information requested below is important for complete documentation of a reported occupational injury or illness.

ACCIDENT/INCIDENT INFORMATION		
To whom was the injury reported?	Injured worker's shift times START: ___ AM ___ PM      END: ___ AM ___ PM	
Is the accident/incident questionable to the supervisor? <input type="checkbox"/> YES <input type="checkbox"/> NO	Were there any signs of the involvement of drugs or alcohol? <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> Unknown	
Was the employee permanently disabled as a result of the accident/incident?	If accident resulted in a fatality, date of death. <input type="checkbox"/> NA    Date: _____	
Last date worked and time employee left work	First day missed?	Number of days employee is expected to miss, if applicable.
Has the employee returned to work? <input type="checkbox"/> YES    Date: _____ <input type="checkbox"/> NO    Expected return date: _____		
ACCIDENT INVESTIGATION INFORMATION		
Was any safety equipment provided? If yes, was it used?		
Was a third party responsible for the accident/incident? If yes, list name, address, and phone number.		
MEDICAL CARE PROVIDER INFORMATION		
Was first aid administered on-site? <input type="checkbox"/> YES <input type="checkbox"/> NO    If yes, describe.		
Name of clinic and/or doctor employee saw. Include address, city, state, zip code, and phone number.		
Name of hospital employee was taken to, if applicable. Include address, city, state, zip code, and phone number.		
Was the employee admitted to the hospital? <input type="checkbox"/> YES <input type="checkbox"/> NO    If yes, on what date?		
Was the employee treated as an outpatient, receive emergency treatment, or ambulance service?		
Supervisor's Name (please print)	Supervisor's Signature	Date



**APPENDIX C**

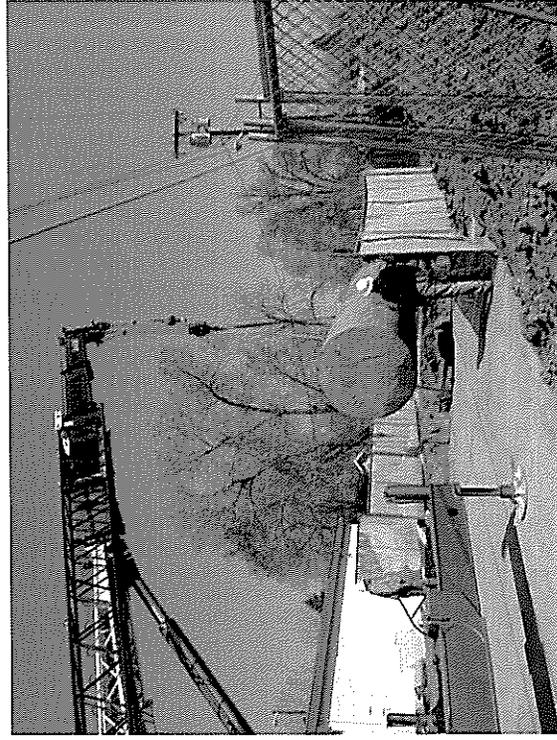
**PHOTOGRAPHS**



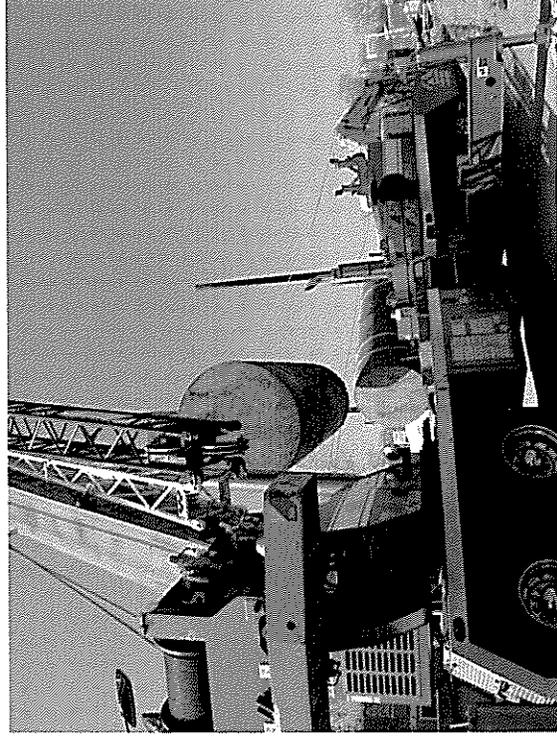
Photograph 1 – Preparing to lift one of the UST's.



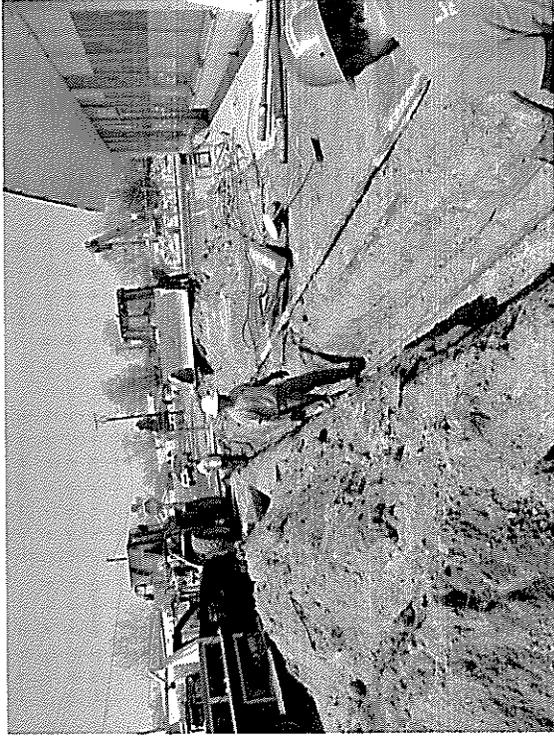
Photograph 3 – UST nearly to the trailer.



Photograph 2 – UST in the air using a crane.



Photograph 4 – Two USTs to transport off site.



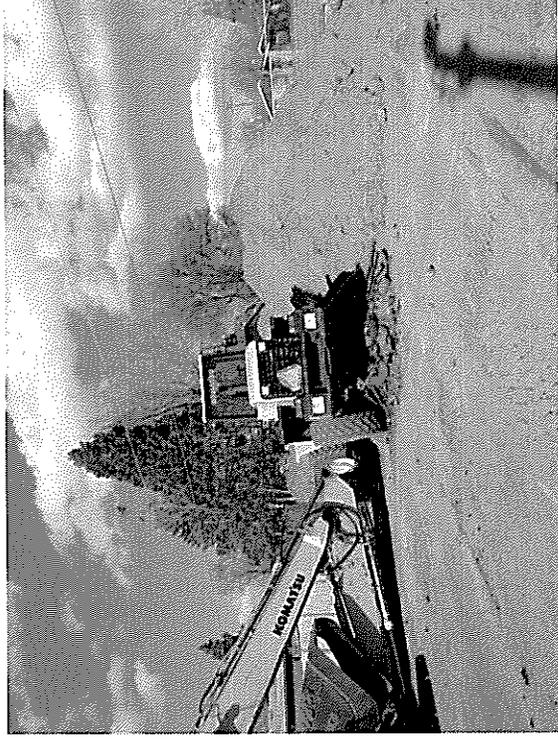
Photograph 5 – Product lines trench.



Photograph 7 – Small soil stockpile.



Photograph 6 – Collecting confirmation samples at 16 feet.



Photograph 8 – Large soil stockpile.



**APPENDIX D**

**ANALYTICAL RESULTS**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153  
Date Received : 04/24/08

Job#: 8417000842

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : S-1	TPH-E (DRO)	20	L	04/23/08	04/24/08
Lab ID : AEE08042451-01A	TPH-E (ORO)	140	G	ppm 10 mg/Kg 04/23/08	04/24/08
	TPH-P (GRO)	ND		10 mg/Kg 04/23/08	04/24/08
	Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg 04/23/08	04/24/08
	Benzene	ND		20 µg/Kg 04/23/08	04/24/08
	Toluene	ND		20 µg/Kg 04/23/08	04/24/08
	Ethylbenzene	ND		20 µg/Kg 04/23/08	04/24/08
	m,p-Xylene	ND		20 µg/Kg 04/23/08	04/24/08
	o-Xylene	ND		20 µg/Kg 04/23/08	04/24/08
Client ID : S-2	TPH-E (DRO)	ND		10 mg/Kg 04/23/08	04/24/08
Lab ID : AEE08042451-02A	TPH-E (ORO)	ND		10 mg/Kg 04/23/08	04/24/08
	TPH-P (GRO)	ND		10 mg/Kg 04/23/08	04/24/08
	Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg 04/23/08	04/24/08
	Benzene	ND		20 µg/Kg 04/23/08	04/24/08
	Toluene	ND		20 µg/Kg 04/23/08	04/24/08
	Ethylbenzene	ND		20 µg/Kg 04/23/08	04/24/08
	m,p-Xylene	ND		20 µg/Kg 04/23/08	04/24/08
	o-Xylene	ND		20 µg/Kg 04/23/08	04/24/08
Client ID : S-3	TPH-E (DRO)	ND		10 mg/Kg 04/23/08	04/24/08
Lab ID : AEE08042451-03A	TPH-E (ORO)	ND		10 mg/Kg 04/23/08	04/24/08
	TPH-P (GRO)	ND		10 mg/Kg 04/23/08	04/24/08
	Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg 04/23/08	04/24/08
	Benzene	ND		20 µg/Kg 04/23/08	04/24/08
	Toluene	ND		20 µg/Kg 04/23/08	04/24/08
	Ethylbenzene	25		20 µg/Kg 04/23/08	04/24/08
	m,p-Xylene	140		20 µg/Kg 04/23/08	04/24/08
	o-Xylene	82		20 µg/Kg 04/23/08	04/24/08
Client ID : S-4	TPH-E (DRO)	ND		10 mg/Kg 04/23/08	04/24/08
Lab ID : AEE08042451-04A	TPH-E (ORO)	ND		10 mg/Kg 04/23/08	04/24/08
	TPH-P (GRO)	ND		10 mg/Kg 04/23/08	04/24/08
	Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg 04/23/08	04/24/08
	Benzene	ND		20 µg/Kg 04/23/08	04/24/08
	Toluene	33		20 µg/Kg 04/23/08	04/24/08
	Ethylbenzene	23		20 µg/Kg 04/23/08	04/24/08
	m,p-Xylene	120		20 µg/Kg 04/23/08	04/24/08
	o-Xylene	72		20 µg/Kg 04/23/08	04/24/08



# Alpha Analytical, Inc.

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Client ID :	S-5	TPH-E (DRO)	130	L	50 mg/Kg	04/23/08	04/24/08
Lab ID :	AEE08042451-05A	TPH-E (ORO)	830	G	100 mg/Kg	04/23/08	04/24/08
		TPH-P (GRO)	ND		10 mg/Kg	04/23/08	04/24/08
		Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg	04/23/08	04/24/08
		Benzene	ND		20 µg/Kg	04/23/08	04/24/08
		Toluene	ND		20 µg/Kg	04/23/08	04/24/08
		Ethylbenzene	ND		20 µg/Kg	04/23/08	04/24/08
		m,p-Xylene	ND		20 µg/Kg	04/23/08	04/24/08
		o-Xylene	ND		20 µg/Kg	04/23/08	04/24/08
Client ID :	S-6	TPH-E (DRO)	ND		10 mg/Kg	04/23/08	04/24/08
Lab ID :	AEE08042451-06A	TPH-E (ORO)	ND		10 mg/Kg	04/23/08	04/24/08
		TPH-P (GRO)	ND		10 mg/Kg	04/23/08	04/24/08
		Methyl tert-butyl ether (MTBE)	ND		20 µg/Kg	04/23/08	04/24/08
		Benzene	ND		20 µg/Kg	04/23/08	04/24/08
		Toluene	ND		20 µg/Kg	04/23/08	04/24/08
		Ethylbenzene	ND		20 µg/Kg	04/23/08	04/24/08
		m,p-Xylene	ND		20 µg/Kg	04/23/08	04/24/08
		o-Xylene	ND		20 µg/Kg	04/23/08	04/24/08

**Diesel Range Organics (DRO) C13-C22**

G = ORO compounds have varying amounts of recovery.

**Gasoline Range Organics (GRO) C4-C13**

L = DRO concentration may include contributions from heavier-end hydrocarbons (e.g. motor oil) that elute in the DRO range.

**Oil Range Organics (ORO) C22-C40+**

Sample results were calculated on a wet weight basis.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*[Signature]*  
4/25/08

**Report Date**



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
25-Apr-08

## QC Summary Report

Work Order:  
08042451

### Method Blank

File ID:	Type	MBLK	Test Code:	EPA Method SW8015	Batch ID:	19723	Analysis Date:	04/24/2008 13:04		
Sample ID:	MBLK-19723	Units :	mg/Kg	Run ID:	FID_2_080424A	Prep Date:	04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	10								
TPH-E (ORO)	ND	10								
Surr: Nonane	101		100		101	44	159			

### Laboratory Control Spike

File ID:	Type	LCS	Test Code:	EPA Method SW8015	Batch ID:	19723	Analysis Date:	04/24/2008 12:39		
Sample ID:	LCS-19723	Units :	mg/Kg	Run ID:	FID_2_080424A	Prep Date:	04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	85.6	10	100		86	70	130			
Surr: Nonane	107		100		107	44	159			

### Sample Matrix Spike

File ID:	Type	MS	Test Code:	EPA Method SW8015	Batch ID:	19723	Analysis Date:	04/25/2008 02:31		
Sample ID:	08042451-01AMS	Units :	mg/Kg	Run ID:	FID_2_080424A	Prep Date:	04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	87.5	10	100	20.26	67	37	164			
Surr: Nonane	103		100		103	44	159			

### Sample Matrix Spike Duplicate

File ID:	Type	MSD	Test Code:	EPA Method SW8015	Batch ID:	19723	Analysis Date:	04/25/2008 02:56		
Sample ID:	08042451-01AMSD	Units :	mg/Kg	Run ID:	FID_2_080424A	Prep Date:	04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	90.3	10	100	20.26	70	37	164	87.48	3.2(20)	
Surr: Nonane	108		100		108	44	159			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
25-Apr-08

## OC Summary Report

Work Order:  
08042451

### Method Blank

File ID: 08042407.D

Sample ID: MBLK MS15S9720B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	ND	10								
Surr: 1,2-Dichloroethane-d4	0.189		0.2		94	69	126			
Surr: Toluene-d8	0.212		0.2		106	80	120			
Surr: 4-Bromofluorobenzene	0.21		0.2		105	80	120			

### Laboratory Control Spike

File ID: 08042405.D

Sample ID: GLCS MS15S9720B

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	16.6	2	16		104	58	141			
Surr: 1,2-Dichloroethane-d4	0.38		0.4		95	69	126			
Surr: Toluene-d8	0.412		0.4		103	80	120			
Surr: 4-Bromofluorobenzene	0.441		0.4		110	80	120			

### Sample Matrix Spike

File ID: 08042410.D

Sample ID: 08042451-06AGS

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	16.5	2	16	0	103	46	142			
Surr: 1,2-Dichloroethane-d4	0.385		0.4		96	69	126			
Surr: Toluene-d8	0.408		0.4		102	80	120			
Surr: 4-Bromofluorobenzene	0.42		0.4		105	80	120			

### Sample Matrix Spike Duplicate

File ID: 08042411.D

Sample ID: 08042451-06AGSD

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-P (GRO)	14	2	16	0	87	46	142	16.54	16.9(20)	
Surr: 1,2-Dichloroethane-d4	0.393		0.4		98	69	126			
Surr: Toluene-d8	0.414		0.4		104	80	120			
Surr: 4-Bromofluorobenzene	0.421		0.4		105	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

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Date:  
25-Apr-08

## OC Summary Report

Work Order:  
08042451

### Method Blank

File ID: 08042407.D

Type MBLK Test Code: EPA Method SW8260B

Batch ID: MS15S9720A

Analysis Date: 04/24/2008 12:09

Sample ID: MBLK MS15S9720A

Units: µg/Kg

Run ID: MSD\_15\_080424B

Prep Date: 04/24/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	ND	20								
Benzene	ND	20								
Toluene	ND	20								
Ethylbenzene	ND	20								
m,p-Xylene	ND	20								
o-Xylene	ND	20								
Surr: 1,2-Dichloroethane-d4	189		200		94	69	126			
Surr: Toluene-d8	212		200		106	80	120			
Surr: 4-Bromofluorobenzene	210		200		105	80	120			

### Laboratory Control Spike

File ID: 08042404.D

Type LCS Test Code: EPA Method SW8260B

Batch ID: MS15S9720A

Analysis Date: 04/24/2008 11:00

Sample ID: LCS MS15S9720A

Units: µg/Kg

Run ID: MSD\_15\_080424B

Prep Date: 04/24/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	359	10	400		90	63	136			
Benzene	439	10	400		110	70	140			
Toluene	428	10	400		107	70	130			
Ethylbenzene	433	10	400		108	70	130			
m,p-Xylene	463	10	400		116	70	133			
o-Xylene	473	10	400		118	70	135			
Surr: 1,2-Dichloroethane-d4	320		400		80	69	126			
Surr: Toluene-d8	416		400		104	80	120			
Surr: 4-Bromofluorobenzene	460		400		115	80	120			

### Sample Matrix Spike

File ID: 08042408.D

Type MS Test Code: EPA Method SW8260B

Batch ID: MS15S9720A

Analysis Date: 04/24/2008 12:32

Sample ID: 08042451-06AMS

Units: µg/Kg

Run ID: MSD\_15\_080424B

Prep Date: 04/24/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	420	10	400		0	105	42	146		
Benzene	440	10	400		0	110	57	140		
Toluene	425	10	400		0	106	60	130		
Ethylbenzene	431	10	400		0	108	63	134		
m,p-Xylene	461	10	400		0	115	64	136		
o-Xylene	472	10	400		0	118	62	138		
Surr: 1,2-Dichloroethane-d4	330		400			82	69	126		
Surr: Toluene-d8	409		400			102	80	120		
Surr: 4-Bromofluorobenzene	439		400			110	80	120		

### Sample Matrix Spike Duplicate

File ID: 08042409.D

Type MSD Test Code: EPA Method SW8260B

Batch ID: MS15S9720A

Analysis Date: 04/24/2008 12:55

Sample ID: 08042451-06AMSD

Units: µg/Kg

Run ID: MSD\_15\_080424B

Prep Date: 04/24/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Methyl tert-butyl ether (MTBE)	392	10	400		0	98	42	146	419.6	6.7(20)
Benzene	408	10	400		0	102	57	140	439.7	7.6(20)
Toluene	397	10	400		0	99	60	130	425.4	7.0(20)
Ethylbenzene	401	10	400		0	100	63	134	430.6	7.1(20)
m,p-Xylene	429	10	400		0	107	64	136	461.3	7.2(20)
o-Xylene	441	10	400		0	110	62	138	472.4	6.9(20)
Surr: 1,2-Dichloroethane-d4	338		400			84	69	126		
Surr: Toluene-d8	413		400			103	80	120		
Surr: 4-Bromofluorobenzene	445		400			111	80	120		

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**AMENDED**  
Page: 4 of 1  
**Received**

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : AEE08042451**  
**Report Due By : 10:00 A On : 25 Apr-08**

**Report Attention** John Dyer  
**Phone Number** (775) 331-2375 x 118  
**E-Mail Address** john.dyer@amec.com

**AMEC**  
**Sparks, Nevada**

**EDD Required : No**

**Sampled by : John Dyer**

**Cooler Temp** 4 °C  
**Samples Received** 24-Apr-08  
**Date Printed** 24-Apr-08

**Job :** 8417000842

**Client's COC # :** 026021

**QC Level :** S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			Requested Tests			Sample Remarks
				Alpha	Sub	TAT	TPHE_S	TPHIP_S	VOC_S	
AEE08042451-01A	S-1	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	
AEE08042451-02A	S-2	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	
AEE08042451-03A	S-3	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	
AEE08042451-04A	S-4	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	
AEE08042451-05A	S-5	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	
AEE08042451-06A	S-6	SO	04/23/08 00:00	1	0	1	TPHE_N	GAS-N	BTXEM_N	

**Billing Information :**  
AMEC  
780 Vista Blvd. Suite 100  
Sparks, NV 894346656

**Client:**  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100

Sparks, NV 89434-6656

PO :

**Comments:** Samples brought in by client. Frozen ice. 24hr TAT. Client needs preliminary results by 10:00am on Friday, 4/25/08. Client is aware that he will not receive a signed report until Monday, 4/28/08. No sampling times provided. Amended 4/24/08 to add TPH/p & MTBE to all samples, per Latricia's conversation w/ John Dyer, TD.

**Logged in by:** Steve Johnson **Signature** Steve Johnson **Print Name** Steve Johnson **Company** Alpha Analytical, Inc. **Date/Time** 4/24/08 1500

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

## CHAIN-OF-CUSTODY RECORD

**Billing Information :**  
AMEC  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**WorkOrder : AEE08042451**  
**Report Due By : 10:00 A On : 25-Apr-08**

**Report Attention** John Dyer  
**Phone Number** (775) 331-2375 x 118  
**E-Mail Address** john.dyer@amec.com

**Client:**  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100

Sparks, NV 89434-6656

**PO :**

**Client's COC # :** 026021

**Job :** 8417000842

**QC Level :** S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

**EDD Required :** No

**Sampled by :** John Dyer

**Cooler Temp** 4 °C  
**Samples Received** 24-Apr-08  
**Date Printed** 24-Apr-08

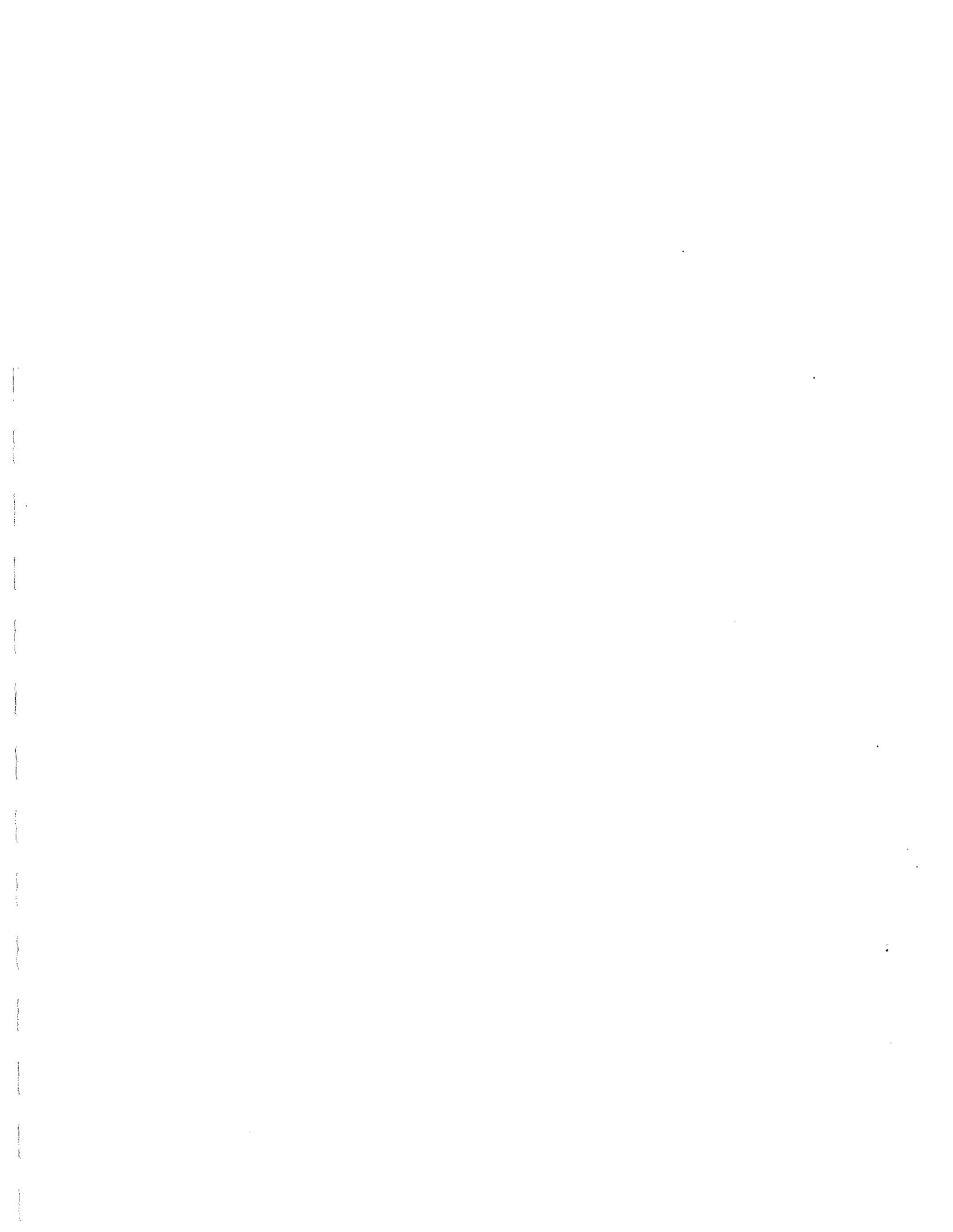
Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests				Sample Remarks	
				Alpha	Sub	TPHE_S	VOC_S	TPHE_N	TPHE_N		TPHE_N
AEE08042451-01A	S-1	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		
AEE08042451-02A	S-2	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		
AEE08042451-03A	S-3	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		
AEE08042451-04A	S-4	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		
AEE08042451-05A	S-5	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		
AEE08042451-06A	S-6	SO	04/23/08 00:00	1	0	1		TPHE_N	TPHE_N		

**Comments:** Samples brought in by client. Frozen ice. 24hr TAT. Client needs preliminary results by 10:00am on Friday, 4/25/08. Client is aware that he will not receive a signed report until Monday, 4/28/08. No sampling times provided.

**Logged in by:**  **Signature** Tara Johnson  
**Print Name** Tara Johnson  
**Company** Alpha Analytical, Inc.  
**Date/Time**

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.  
Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other







# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153  
Date Received : 04/25/08

Job#: 8417000842

Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B  
Total Petroleum Hydrocarbons - Purgeable (TPH-P) EPA Method SW8015B  
Volatile Organic Compounds (VOCs) EPA Method SW8260B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Client ID : S-1A	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID : AEE08042557-01A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
	TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
	Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
	Benzene	ND	20 µg/Kg	04/25/08	04/26/08
	Toluene	ND	20 µg/Kg	04/25/08	04/26/08
	Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
	m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
	o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
Client ID : S-3A	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID : AEE08042557-02A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
	TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
	Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
	Benzene	ND	20 µg/Kg	04/25/08	04/26/08
	Toluene	ND	20 µg/Kg	04/25/08	04/26/08
	Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
	m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
	o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
Client ID : S-5A	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID : AEE08042557-03A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
	TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
	Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
	Benzene	ND	20 µg/Kg	04/25/08	04/26/08
	Toluene	ND	20 µg/Kg	04/25/08	04/26/08
	Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
	m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
	o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
Client ID : ET-S-16	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID : AEE08042557-04A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
	TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
	Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
	Benzene	ND	20 µg/Kg	04/25/08	04/26/08
	Toluene	ND	20 µg/Kg	04/25/08	04/26/08
	Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
	m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
	o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Client ID:	ET-N-16	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID:	AEE08042557-06A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
		TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
		Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
		Benzene	ND	20 µg/Kg	04/25/08	04/26/08
		Toluene	ND	20 µg/Kg	04/25/08	04/26/08
		Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
		m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
		o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
Client ID:	WT-S-16	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID:	AEE08042557-08A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
		TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
		Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
		Benzene	ND	20 µg/Kg	04/25/08	04/26/08
		Toluene	ND	20 µg/Kg	04/25/08	04/26/08
		Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
		m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
		o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
Client ID:	WT-N-16	TPH-E (DRO)	ND	10 mg/Kg	04/25/08	04/26/08
Lab ID:	AEE08042557-10A	TPH-E (ORO)	ND	10 mg/Kg	04/25/08	04/26/08
		TPH-P (GRO)	ND	10 mg/Kg	04/25/08	04/26/08
		Methyl tert-butyl ether (MTBE)	ND	20 µg/Kg	04/25/08	04/26/08
		Benzene	ND	20 µg/Kg	04/25/08	04/26/08
		Toluene	ND	20 µg/Kg	04/25/08	04/26/08
		Ethylbenzene	ND	20 µg/Kg	04/25/08	04/26/08
		m,p-Xylene	ND	20 µg/Kg	04/25/08	04/26/08
		o-Xylene	ND	20 µg/Kg	04/25/08	04/26/08

Diesel Range Organics (DRO) C13-C22

Gasoline Range Organics (GRO) C4-C13

Oil Range Organics (ORO) C22-C40+

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

4/28/08

Report Date

**Billing Information:**

AMEC  
780 Vista Blvd, Suite 100  
Sparks, NV 894346656

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**PLUSH NV**

**WorkOrder : AEE08042557**  
**Report Due By : 5:00 PM On : 28-Apr-08**

**Client:**  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 89434-6656

**Report Attention** John Dyer  
**Phone Number** (775) 331-2375 x 118  
**Email Address** john.dyer@amec.com

EDD Required : No

Sampled by : John Dyer

Client's COC # : 026041

Job : 8417000842

Cooler Temp 4 °C  
Samples Received 25-Apr-08  
Date Printed 25-Apr-08

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles			TAT	Requested Tests					Sample Remarks	
				Alpha	Sub	Hold		HOLD	TPHE_S	TPHP_S	VOC_S	TPHE_N		GAS_N
AEE08042557-01A	S-1A	SO	04/25/08 12:03	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-02A	S-3A	SO	04/25/08 12:10	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-03A	S-5A	SO	04/25/08 12:15	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-04A	ET-S-16	SO	04/25/08 11:12	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-05A	ET-S-19	SO	04/25/08 11:15	1	0	1	Hold	TPHE_N	GAS_N	BTXEM_N				
AEE08042557-06A	ET-N-16	SO	04/25/08 11:43	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-07A	ET-N-19	SO	04/25/08 11:48	1	0	1	Hold	TPHE_N	GAS_N	BTXEM_N				
AEE08042557-08A	WT-S-16	SO	04/25/08 11:02	1	0	1		TPHE_N	GAS_N	BTXEM_N				
AEE08042557-09A	WT-S-19	SO	04/25/08 11:08	1	0	1	Hold	TPHE_N	GAS_N	BTXEM_N				
AEE08042557-10A	WT-N-16	SO	04/25/08 11:37	1	0	1		TPHE_N	GAS_N	BTXEM_N				

Comments: Samples brought in by client. Frozen ice. 24hr TAT.

Logged in by: John Dyer Signature: [Signature] Print Name: John Dyer Company: Alpha Analytical, Inc. Date/Time: 4/25/08 1340

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : Aq(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**R154**  
**NV**

# CHAIN-OF-CUSTODY RECORD

Billing Information :  
AMEC  
780 Vista Blvd, Suite 100  
Sparks, NV 894346656

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : **AEE08042557**  
Report Due By : **5:00 PM On : 28-Apr-08**

Report Attention **John Dyer** Phone Number **(775) 331-2375 x 118** EMail Address **john.dyer@amec.com**

Client:  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100

EDD Required : **No**

Sampled by : **John Dyer**

Cooler Temp **4 °C** Samples Received **25-Apr-08** Date Printed **25-Apr-08**

PO :  
Sparks, NV 89434-6656

Client's COC # : **026041** Job : **8417000842**

QC Level : **S3** = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

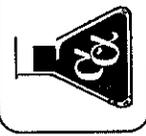
Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests			Sample Remarks
				Alpha	Sub	HOLD	TPHE_S	TPHP_S	
AEE08042557-11A	WT-N-19	SO	04/25/08 11:40	1	0	1	Hold		

Comments: **Samples brought in by client. Frozen ice. 24hr TAT.**

Logged in by: *Steve Jackson* Signature: *Tara Jackson* Print Name: Tara Jackson Company: Alpha Analytical, Inc. Date/Time: 4/25/08 1326

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedfar B-Brass P-Plastic OT-Other

**Alpha Analytical, Inc.**  
 255 Glendale Avenue, Suite 21  
 Sparks, Nevada 89431-5778  
 Phone (775) 355-1044  
 Fax (775) 355-0406



Billing Information:  
**AMEC**  
 Name \_\_\_\_\_  
 Address \_\_\_\_\_  
 City, State, Zip \_\_\_\_\_  
 Phone Number \_\_\_\_\_ Fax \_\_\_\_\_

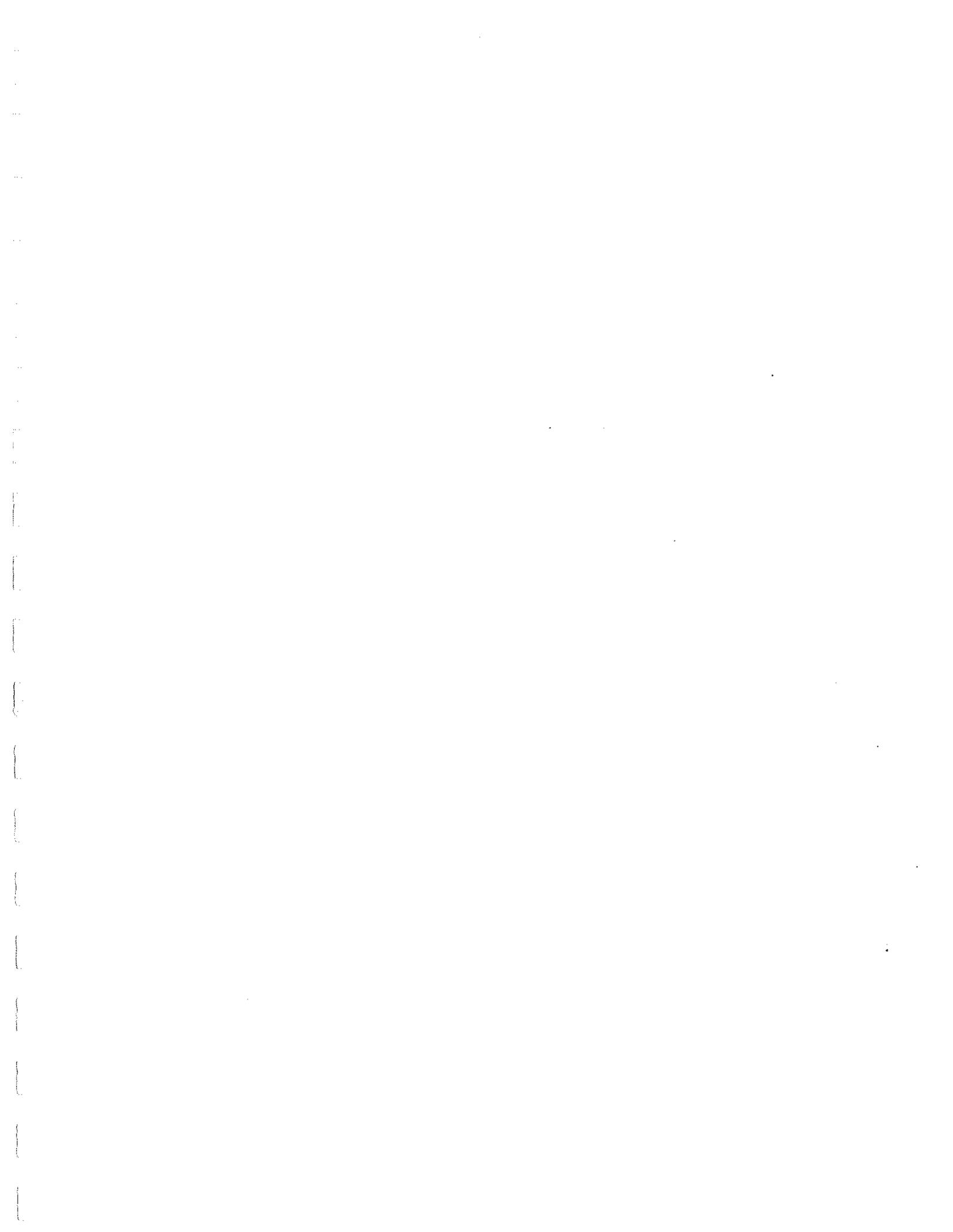
Time Sampled	Date	Matrix* See Key Below	Sample ID Number (Office Use Only)	Report Attacker	Sample Description	TAT	Total and type of containers		Required QC Level?	REMARKS
							Field	Filtered		
12:03	4/25/08	SO	1AED0804557-0	John Dyer	S-1A	24 hr	1	5	I	Hold
12:10			-02		S-3A	24 hr	1	1	I	Hold
12:15			-03		S-SA	24 hr	1	1	I	Hold
11:12			-04		ET-S-16	24 hr	1	1	I	Hold
11:15			-05		ET-S-19	24 hr	1	1	I	Hold
11:43			-00		ET-N-16	24 hr	1	1	I	Hold
11:48			-02		ET-N-19	24 hr	1	1	I	Hold
11:02			-08		WT-S-16	24 hr	1	1	I	Hold
11:08			-09		WT-S-19	24 hr	1	1	I	Hold
11:37			-10		WT-N-16	24 hr	1	1	I	Hold
11:40			-11		WT-N-19	24 hr	1	1	I	Hold

Analyses Required	Global ID #	EDD/EDF? YES NO	Required QC Level? I II III IV
ISTE X/MTR/E			
TOP-E			
TOP-D			

**ADDITIONAL INSTRUCTIONS:**

Signature	Print Name	Company	Date	Time
<i>John Dyer</i>	John Dyer	AMEC Earth & Environmental	4/25/08	1:00
<i>Jane Johnson</i>	Jane Johnson	Alpha	4/25/08	13:00

\*Key: AQ - Aqueous SO - Soil WA - Waste OT - Other AR - Air \*\*; L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other  
 NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this coc. The liability of the laboratory is limited to the amount paid for the report.





# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153  
Date Received : 04/29/08

Job#:

### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed	
Client ID :	C-4	TPH-E (DRO)	ND	10 mg/Kg	04/29/08	04/30/08
Lab ID :	AEE08042904-01A	TPH-E (ORO)	ND	10 mg/Kg	04/29/08	04/30/08

Diesel Range Organics (DRO) C13-C22

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*4/30/08*

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
05-May-08

## OC Summary Report

Work Order:  
08042904

### Method Blank

Method Blank		Type	MBLK		Test Code: EPA Method SW8015						
File ID:			Batch ID: 19748		Analysis Date: 05/01/2008 05:48						
Sample ID:	MBLK-19748	Units :	mg/Kg	Run ID:	FID_2_080429C	Prep Date:	04/29/2008				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-E (DRO)	ND	10									
TPH-E (ORO)	ND	10									
Surr: Nonane	103		100		103	44	159				

### Laboratory Control Spike

Laboratory Control Spike		Type	LCS		Test Code: EPA Method SW8015						
File ID:			Batch ID: 19748		Analysis Date: 05/01/2008 05:22						
Sample ID:	LCS-19748	Units :	mg/Kg	Run ID:	FID_2_080429C	Prep Date:	04/29/2008				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-E (DRO)	92.2	10	100		92	70	130				
Surr: Nonane	98.5		100		98	44	159				

### Sample Matrix Spike

Sample Matrix Spike		Type	MS		Test Code: EPA Method SW8015						
File ID:			Batch ID: 19748		Analysis Date: 05/01/2008 19:16						
Sample ID:	08042824-02AMS	Units :	mg/Kg	Run ID:	FID_2_080429C	Prep Date:	04/29/2008				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-E (DRO)	3380	100	100	2968	408	37	164			M53	
Surr: Nonane	0		100		0	44	159			S50	

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	MSD		Test Code: EPA Method SW8015						
File ID:			Batch ID: 19748		Analysis Date: 05/01/2008 19:41						
Sample ID:	08042824-02AMSD	Units :	mg/Kg	Run ID:	FID_2_080429C	Prep Date:	04/29/2008				
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual	
TPH-E (DRO)	3430	100	100	2968	467	37	164	3376	1.7(20)	M53	
Surr: Nonane	0		100		0	44	159			S50	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

S50 = The analysis of the sample required a dilution such that the surrogate concentration was diluted below the laboratory acceptance criteria. The laboratory control sample recovery was acceptable.

M53 = Matrix spike recovery was above laboratory acceptance limits and is likely due to the presence of primarily heavy-end hydrocarbons (C10-C40) that elute out in both the Diesel and Oil ranges.

**RUSH!**  
1/1/1

# CHAIN-OF-CUSTODY RECORD

**Billing Information:**  
AMEC  
780 Vista Blvd. Suite 100  
Sparks, NV 894346656

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

**Report Attention** John Dyer  
**Phone Number** (775) 331-2375 x 118  
**Email Address** john.dyer@amec.com

**WorkOrder:** AEE08042904  
**Report Due By:** 5:00 PM On: 30-Apr-08

**Client:**  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 89434-6656

**EDD Required:** No

**Sampled by:** John Dyer

**Cooler Temp** 26 °C  
**Samples Received** 29-Apr-08  
**Date Printed** 29-Apr-08

**PO:** Client's COC #: 024135  
**Job:** QC Level: S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		TAT	Requested Tests		Sample Remarks
				Alpha	Sub		TPHE_S	TPHE_N	
AEE08042904-01A	C-4	SO	04/29/08 11:15	1	0	1			

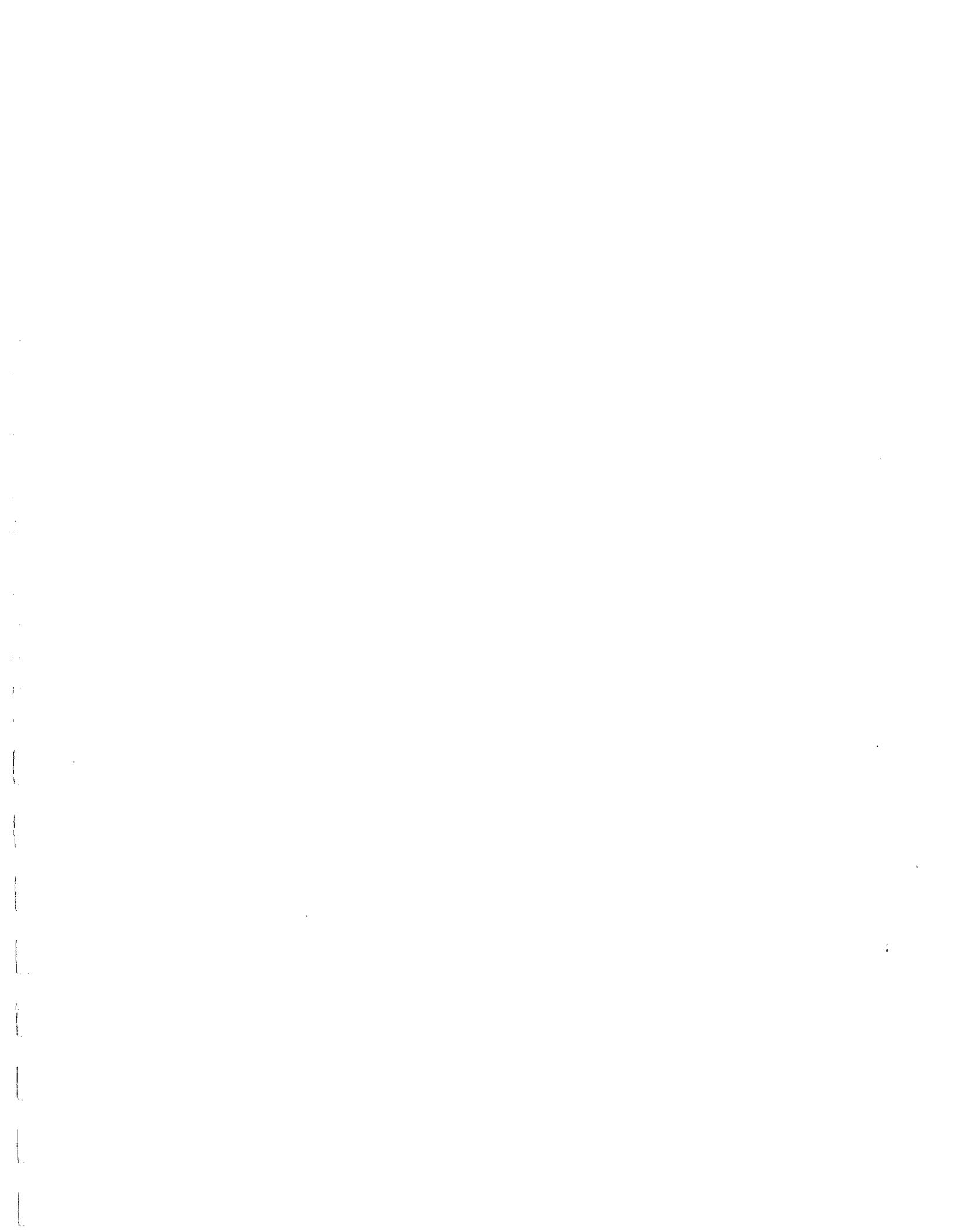
**Comments:** Samples brought in by client. No ice. 24 Hour TAT...

**Logged in by:** Elizabeth Sauvagan  
**Signature:** Elizabeth Sauvagan  
**Print Name:** Elizabeth Sauvagan  
**Company:** Alpha Analytical, Inc.  
**Date/Time:** 4-29-08 11:37

**NOTE:** Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report.

**Matrix Type:** AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other)  
**Bottle Type:** L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other







# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656  
Job#: 8417000842

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153

Alpha Analytical Number: AEE08042425-04A  
Client I.D. Number: C-3

Sampled: 04/23/08  
Received: 04/24/08  
Analyzed: 05/05/08

### TCLP Regulated VOCs EPA Method SW1311 / 8260B

Compound	Concentration	Reporting Limit
1 Vinyl chloride	ND	0.10 mg/L
2 1,1-Dichloroethene	ND	0.10 mg/L
3 2-Butanone (MEK)	ND	0.20 mg/L
4 Chloroform	ND	0.10 mg/L
5 1,2-Dichloroethane	ND	0.10 mg/L
6 Carbon tetrachloride	ND	0.10 mg/L
7 Benzene	ND	0.10 mg/L
8 Trichloroethene	ND	0.10 mg/L
9 Tetrachloroethene	ND	0.10 mg/L
10 Chlorobenzene	ND	0.10 mg/L
11 1,4-Dichlorobenzene	ND	0.10 mg/L

ND = Not Detected

*Roger Scholl*

*Randy Gardner*

*Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*JPG*

5/7/08

Report Date

Page 1 of 1



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153  
Date Received : 04/24/08

Job#: 8417000842

TCLP Metals by ICPMS  
EPA Method SW6020 / SW6020A

Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed
Chromium (Cr)	ND	0.10 mg/L	04/23/08	05/05/08
Arsenic (As)	ND	0.10 mg/L	04/23/08	05/05/08
Selenium (Se)	ND	0.10 mg/L	04/23/08	05/05/08
Silver (Ag)	ND	0.10 mg/L	04/23/08	05/05/08
Cadmium (Cd)	ND	0.10 mg/L	04/23/08	05/05/08
Barium (Ba)	ND	1.0 mg/L	04/23/08	05/05/08
Lead (Pb)	0.23	0.10 mg/L	04/23/08	05/05/08

Client ID: C-3

Lab ID: AEE08042425-04A

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

5/7/08

Report Date



# Alpha Analytical, Inc.

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## ANALYTICAL REPORT

AMEC Earth & Environmental  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Attn: John Dyer  
Phone: (775) 331-2375  
Fax: (775) 331-4153  
Date Received : 04/24/08

Job#: 8417000842

### Total Petroleum Hydrocarbons - Extractable (TPH-E) EPA Method SW8015B

	Parameter	Concentration	Reporting Limit	Date Sampled	Date Analyzed	
Client ID :	C-1+2	TPH-E (DRO)	ND	10 mg/Kg	04/23/08	04/25/08
Lab ID :	AEE08042425-03A	TPH-E (ORO)	ND	10 mg/Kg	04/23/08	04/25/08
Client ID :	C-3	TPH-E (DRO)	ND	10 mg/Kg	04/23/08	04/25/08
Lab ID :	AEE08042425-04A	TPH-E (ORO)	10 G	10 mg/Kg	04/23/08	04/25/08

Diesel Range Organics (DRO) C13-C22

G = ORO compounds have varying amounts of recovery.

Oil Range Organics (ORO) C22-C40+

Sample results were calculated on a wet weight basis.

ND = Not Detected

*Roger Scholl*      *Randy Gardner*      *Walter Hinchman*

Roger L. Scholl, Ph.D., Laboratory Director • Randy Gardner, Laboratory Manager • Walter Hinchman, Quality Assurance Officer  
Sacramento, CA • (916) 366-9089 / Las Vegas, NV • (702) 736-7522 / info@alpha-analytical.com

Alpha Analytical, Inc. currently holds appropriate and available NDEP certifications for the data reported - certification #NV16.

*4/25/08*

Report Date



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
08-May-08

## QC Summary Report

Work Order:  
08042425

### Method Blank

Type MBLK Test Code: EPA Method SW1311 / 8260B

File ID:	Units : mg/L	Run ID:	Batch ID:	Analysis Date:						
Sample ID: MBLK MS12W0505		MSD_12_080505C	MS12W0505	05/05/2008 10:43						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
/inyl chloride	ND	0.1								
1,1-Dichloroethene	ND	0.1								
2-Butanone (MEK)	ND	0.1								
Chloroform	ND	0.1								
1,2-Dichloroethane	ND	0.1								
Carbon tetrachloride	ND	0.1								
Benzene	ND	0.1								
Trichloroethene	ND	0.1								
Tetrachloroethene	ND	0.1								
Chlorobenzene	ND	0.1								
1,4-Dichlorobenzene	ND	0.1								
Surr: 1,2-Dichloroethane-d4	0.00912		0.01		91	75	128			
Surr: Toluene-d8	0.0104		0.01		104	80	120			
Surr: 4-Bromofluorobenzene	0.00931		0.01		93	80	120			

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW1311 / 8260B

File ID:	Units : µg/L	Run ID:	Batch ID:	Analysis Date:						
Sample ID: LCS MS12W0505		MSD_12_080505C	MS12W0505	05/05/2008 09:58						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	10.3	1	10		103	80	120			
Benzene	9.87	0.5	10		99	70	130			
Trichloroethene	10.5	1	10		105	70	130			
Chlorobenzene	11.1	1	10		111	70	130			
Surr: 1,2-Dichloroethane-d4	9.58		10		96	75	128			
Surr: Toluene-d8	10.2		10		102	80	120			
Surr: 4-Bromofluorobenzene	9.46		10		95	80	120			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW1311 / 8260B

File ID:	Units : µg/L	Run ID:	Batch ID:	Analysis Date:						
Sample ID: 08050124-01AMS		MSD_12_080505C	MS12W0505	05/05/2008 14:53						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.7	2.5	50	0	99	66	132			
Benzene	47.8	1.3	50	0	96	70	130			
Trichloroethene	49.7	2.5	50	0	99	69	130			
Chlorobenzene	52.7	2.5	50	0	105	70	130			
Surr: 1,2-Dichloroethane-d4	48.8		50		98	75	128			
Surr: Toluene-d8	50.1		50		100	80	120			
Surr: 4-Bromofluorobenzene	46.6		50		93	80	120			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW1311 / 8260B

File ID:	Units : µg/L	Run ID:	Batch ID:	Analysis Date:						
Sample ID: 08050124-01AMSD		MSD_12_080505C	MS12W0505	05/05/2008 15:16						
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
1,1-Dichloroethene	49.8	2.5	50	0	99.5	66	132	49.68	0.2(20)	
Benzene	47.5	1.3	50	0	95	70	130	47.84	0.7(20)	
Trichloroethene	49.5	2.5	50	0	99	69	130	49.66	0.3(20)	
Chlorobenzene	53	2.5	50	0	106	70	130	52.66	0.7(20)	
Surr: 1,2-Dichloroethane-d4	48		50		96	75	128			
Surr: Toluene-d8	50		50		99.9	80	120			
Surr: 4-Bromofluorobenzene	46.6		50		93	80	120			

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778

(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
07-May-08

## OC Summary Report

Work Order:  
08042425

### Method Blank

Type MBLK Test Code: EPA Method SW6020 / SW6020A

File ID: 050508.BIA039SMPL.D

Batch ID: 19779T

Analysis Date: 05/05/2008 14:29

Sample ID: MB-19779

Units : mg/L

Run ID: ICP/MS\_080505C

Prep Date: 05/05/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	ND	0.1								
Arsenic (As)	ND	0.1								
Selenium (Se)	ND	0.1								
Silver (Ag)	ND	0.1								
Cadmium (Cd)	ND	0.1								
Barium (Ba)	ND	1								
Lead (Pb)	ND	0.1								

### Laboratory Control Spike

Type LCS Test Code: EPA Method SW6020 / SW6020A

File ID: 050508.BIA040\_LCS.D

Batch ID: 19779T

Analysis Date: 05/05/2008 14:35

Sample ID: LCS-19779

Units : mg/L

Run ID: ICP/MS\_080505C

Prep Date: 05/05/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.237	0.005	0.25		95	80	124			
Arsenic (As)	0.248	0.005	0.25		99	85	118			
Selenium (Se)	0.252	0.005	0.25		101	85	118			
Silver (Ag)	0.252	0.005	0.25		101	79	118			
Cadmium (Cd)	0.248	0.005	0.25		99	85	121			
Barium (Ba)	2.44	0.005	2.5		98	85	132			
Lead (Pb)	0.251	0.005	0.25		100	85	120			

### Sample Matrix Spike

Type MS Test Code: EPA Method SW6020 / SW6020A

File ID: 050508.B\779MS.D\

Batch ID: 19779T

Analysis Date: 05/05/2008 20:09

Sample ID: 08050545-01AMS

Units : mg/L

Run ID: ICP/MS\_080505C

Prep Date: 05/05/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.238	0.005	0.25		95	70	133			
Arsenic (As)	0.256	0.005	0.25		102	70	130			
Selenium (Se)	0.253	0.005	0.25		101	70	131			
Silver (Ag)	0.254	0.005	0.25		102	70	130			
Cadmium (Cd)	0.255	0.005	0.25		102	70	130			
Barium (Ba)	3.11	0.005	2.5	0.3949	109	70	143			
Lead (Pb)	0.253	0.005	0.25		101	70	130			

### Sample Matrix Spike Duplicate

Type MSD Test Code: EPA Method SW6020 / SW6020A

File ID: 050508.B\779MSD.D\

Batch ID: 19779T

Analysis Date: 05/05/2008 20:15

Sample ID: 08050545-01AMSD

Units : mg/L

Run ID: ICP/MS\_080505C

Prep Date: 05/05/2008

Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
Chromium (Cr)	0.242	0.005	0.25		97	70	133	0.2376	2.0(20)	
Arsenic (As)	0.26	0.005	0.25		104	70	130	0.2557	1.7(20)	
Selenium (Se)	0.262	0.005	0.25		105	70	131	0.2533	3.3(20)	
Silver (Ag)	0.26	0.005	0.25		104	70	130	0.254	2.2(20)	
Cadmium (Cd)	0.258	0.005	0.25		103	70	130	0.2551	0.9(20)	
Barium (Ba)	3.12	0.005	2.5	0.3949	109	70	143	3.114	0.1(20)	
Lead (Pb)	0.254	0.005	0.25		102	70	130	0.2528	0.6(20)	

### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



# Alpha Analytical, Inc.

255 Glendale Ave. • Suite 21 • Sparks, Nevada 89431-5778  
(775) 355-1044 • (775) 355-0406 FAX • 1-800-283-1183

Date:  
29-Apr-08

## QC Summary Report

Work Order:  
08042425

### Method Blank

Method Blank		Type	Test Code: EPA Method SW8015							
File ID:			Batch ID: 19723				Analysis Date: 04/24/2008 13:04			
Sample ID:	MBLK-19723	Units : mg/Kg	Run ID: FID_2_080424A				Prep Date: 04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	ND	10								
TPH-E (ORO)	ND	10								
Surr: Nonane	101		100		101	44	159			

### Laboratory Control Spike

Laboratory Control Spike		Type	Test Code: EPA Method SW8015							
File ID:			Batch ID: 19723				Analysis Date: 04/24/2008 12:39			
Sample ID:	LCS-19723	Units : mg/Kg	Run ID: FID_2_080424A				Prep Date: 04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	85.6	10	100		86	70	130			
Surr: Nonane	107		100		107	44	159			

### Sample Matrix Spike

Sample Matrix Spike		Type	Test Code: EPA Method SW8015							
File ID:			Batch ID: 19723				Analysis Date: 04/25/2008 02:31			
Sample ID:	08042451-01AMS	Units : mg/Kg	Run ID: FID_2_080424A				Prep Date: 04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	87.5	10	100	20.26	67	37	164			
Surr: Nonane	103		100		103	44	159			

### Sample Matrix Spike Duplicate

Sample Matrix Spike Duplicate		Type	Test Code: EPA Method SW8015							
File ID:			Batch ID: 19723				Analysis Date: 04/25/2008 02:56			
Sample ID:	08042451-01AMSD	Units : mg/Kg	Run ID: FID_2_080424A				Prep Date: 04/24/2008			
Analyte	Result	PQL	SpkVal	SpkRefVal	%REC	LCL(ME)	UCL(ME)	RPDRefVal	%RPD(Limit)	Qual
TPH-E (DRO)	90.3	10	100	20.26	70	37	164	87.48	3.2(20)	
Surr: Nonane	108		100		108	44	159			

#### Comments:

Calculations are based off of raw (non-rounded) data. However, for reporting purposes, all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

**#2**  
#2  
Page: 1 of 1

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**  
255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention: John Dyer  
Phone Number: (775) 331-2375 x 118  
E-Mail Address: john.dyer@amec.com

WorkOrder : AEE08042425  
Report Due By : 5:00 PM On : 28-Apr-08  
Amendment due 5/8/08

EDD Required : No

Sampled by : John Dyer

Cooler Temp : 4 °C  
Samples Received : 24-Apr-08  
Date Printed : 01-May-08

Billing Information :  
AMEC  
780 Vista Blvd., Suite 100  
Sparks, NV 894346656

Client:  
AMEC Earth & Environmental  
780 Vista Blvd., Suite 100

Sparks, NV 89434-6656

PO :

Client's COC # : 026043 Job : 8417000842

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests					Sample Remarks	
				Alpha	Sub	TAT	COMPOSIT E	METALS_I CLP	TCLP_VOC _W	TPHE_S		TPHE_N
AEE08042425-01A	C-1	SO	04/23/08 18:00	1	0	2	Composite					
AEE08042425-02A	C-2	SO	04/23/08 18:05	1	0	2	Composite					
AEE08042425-03A	C-1+2	SO	04/23/08 00:00	1	0	2				TPHE_N		
AEE08042425-04A	C-3	SO	04/23/08 18:10	1	0	2		TCLP_7	TCLP_11	TPHE_N		

Comments: 48 HR TAT, per John Dyer. Samples brought in by client. Frozen ice. Per phone call from John, composite samples 01A and 02A into one sample. Amended 4/24/08 15:55 to correct job number and sample ID for 03A, per email from John. KM : Amended #2 5/1/08 11:35 to add TCLP 7/11 to sample 04A on standard TAT, per John. Due 5/8/08 KM

Logged in by: K Murray Signature  
Print Name: K Murray  
Company: Alpha Analytical, Inc.  
Date/Time: 5/1/08 15:55

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

**CHAIN-OF-CUSTODY RECORD**

**Alpha Analytical, Inc.**

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
 TEL: (775) 355-1044 FAX: (775) 355-0406

WorkOrder : AEE08042425

Report Due By : 5:00 PM On : 28-Apr-08

Billing Information :  
 AMEC  
 780 Vista Blvd., Suite 100  
 Sparks, NV 894346656

Client:  
 AMEC Earth & Environmental  
 780 Vista Blvd., Suite 100

Report Attention: John Dyer  
 Phone Number: (775) 331-2375 x 118  
 EMail Address: john.dyer@amecc.com

Sparks, NV 89434-6656

Sampled by : John Dyer

Cooler Temp: 4 °C  
 Samples Received: 24-Apr-08  
 Date Printed: 24-Apr-08

PO :  
 Client's COC # : 026043  
 Job : 8417000842

EDD Required : No

QC Level : S3 = Final Rpt. MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests	Sample Remarks
				Alpha	Sub		
AEE08042425-01A	C-1	SO	04/23/08 18:00	1	0	Composite	
AEE08042425-02A	C-2	SO	04/23/08 18:05	1	0	Composite	
AEE08042425-03A	C-1+2	SO	04/23/08 00:00	1	0	TPHE_N	
AEE08042425-04A	C-3	SO	04/23/08 18:10	1	0	TPHE_N	

Comments: 48 HR TAT, per John Dyer. Samples brought in by client. Frozen ice. Per phone call from John, composite samples 01A and 02A into one sample. Amended 4/24/08 15:55 to correct job number and sample ID for 03A, per email from John. KM :

Logged in by: K Murray Signature  
 Print Name: K Murray  
 Company: Alpha Analytical, Inc.  
 Date/Time: 4/24/08 1555

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

Billing Information :  
AMEC  
780 Vista Blvd. Suite 100  
Sparks, NV 894346656

# CHAIN-OF-CUSTODY RECORD

## Alpha Analytical, Inc.

255 Glendale Avenue, Suite 21 Sparks, Nevada 89431-5778  
TEL: (775) 355-1044 FAX: (775) 355-0406

Report Attention Phone Number EMail Address

John Dyer (775) 331-2375 x 118 john.dyer@amec.com

Sparks, NV 89434-6656

EDD Required : No

Sampled by : John Dyer

Cooler Temp 4 °C Samples Received 24-Apr-08 Date Printed 24-Apr-08

PO :

Client's COC # : 026043 Job : 417000842

QC Level : S3 = Final Rpt, MBLK, LCS, MS/MSD With Surrogates

Alpha Sample ID	Client Sample ID	Matrix	Collection Date	No. of Bottles		Requested Tests	Sample Remarks
				Alpha	Sub TAT		
EEE08042425-01A	C-1	SO	04/23/08 18:00	1	0 2	COMPOSITE Composite	
EEE08042425-02A	C-2	SO	04/23/08 18:05	1	0 2	COMPOSITE Composite	
EEE08042425-03A	Composite of C-1 and C-2	SO	04/23/08 00:00	1	0 2	TPH/E_N	
EEE08042425-04A	C-3	SO	04/23/08 18:10	1	0 2	TPH/E_N	

Comments: 48 HR TAT, per John Dyer. Samples brought in by client. Frozen ice. Per phone call from John, composite samples 01A and 02A into one sample. i.

Logged in by: K Murray Signature K Murray Print Name Alpha Analytical, Inc. Company Alpha Analytical, Inc. Date/Time 4/24/08 1400

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for the report. Matrix Type : AQ(Aqueous) AR(Air) SO(Soil) WS(Waste) DW(Drinking Water) OT(Other) Bottle Type: L-Liter V-Voa S-Soil Jar O-Orbo T-Tedlar B-Brass P-Plastic OT-Other

NV **REC'D** 1 of 1

WorkOrder : AEE08042425  
Report Due By : 5:00 PM On : 28-Apr-08





**APPENDIX E**

**DISPOSAL AND TREATMENT RECEIPTS**

**BRAMCO CONSTRUCTION CORP.**  
 NV LIC#19292 LIC. Limit 6 Mil.  
 CA LIC#682446  
 325 S. 18th Street  
 SPARKS, NEVADA 89431-5514

# LETTER OF TRANSMITTAL

Received <sup>213</sup>

MAY 14 2008

(775) 356-1781  
 Fax (775) 356-6122

TO AMEC  
 780 VISTA BLVD # 100  
 SPARKS NV 89434

JOB NUMBER/PHONE	AMEC
331-2375	Sparks, Nevada
ATTENTION	
MR. JOHN DYER	
RE:	
CITY OF RENO 1405 OLIVER RENO, NEVADA	

WE ARE SENDING YOU  Attached  Under separate cover via the following items.

- Shop drawings
- Prints
- Plans
- Specifications
- Samples
- Copy of letter
- Change order
- Other:

COPIES	DATE	NUMBER	DESCRIPTION
1	5/13/2008		3 PG- CERTIFIED PAYROLL REPORT
1	5/13/2008		BRAMCO IN HOUSE CLOSURE REPORT FOR UST
1	5/13/2008		BRAMCO IN HOUSE CLOSURE REPORT FOR SECOND UST
1	5/13/2008		CITY OF RENO SIGNED OFF UST CLOSURE PERMIT
1	5/13/2008		CERTIFICATE OF DESTRUCTION FOR UST'S
7	5/13/2008		CERTIFIATE OF RECYCLING OF WASTE STREAM

THESE ARE TRANSMITTED as checked below:

- For your approval  Approved as submitted  Resubmit  copies for approval
- For your use  Approved as noted  Submit  copies for distribution
- As requested  Returned for corrections  Return  corrected prints
- For review and comment  Other

FOR BIDS DUE/DATE:

PRINTS RETURNED AFTER LOAN TO US

REMARKS

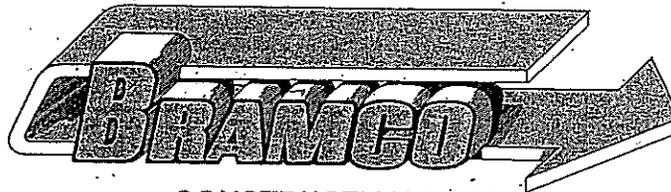
JOHN - THESE ARE THE ORIGINAL DOCUMENTS FOR YOUR RECORDS AND FOR THE OWNERS RECORDS.  
 PLEASE FEEL FREE TO CONTACT OUR OFFICE SHOULD YOU REQUIRE ANY FURTHER INFORMATION.

SINCERELY,  
  
 MICHAEL I. CECCHI, V.P.

COPY TO FILE

SIGNED \_\_\_\_\_

If enclosures are not as noted, please notify us at once.



CONSTRUCTION CORP.

NEVADA LICENSE # 19292 - LIMIT \$6 MILLION
CALIFORNIA LICENSE # 682446

EXCAVATION • GRADING • PIPELINE • UNDERGROUND • UTILITY CONTRACTORS
FUEL TANK SPECIALISTS

UNDERGROUND STORAGE TANK REMOVAL/CLOSURE REPORT

1) LOCATION & OWNER OF UST: City of Reno
1405 Oliver
Reno, Nevada

2) REGULATED UST: x NON-REGULATED UST:

3) DATE OF CLOSURE: 4/25/08

4) PERMIT NUMBER: Permit / but no number

5) UST DIMENSIONS:(LENGTH) 28' (DIAMETER) 8'

6) DEPTH TO TOP OF UST: 30"

7) LEL %: 0%

8) METHOD OF DISPOSAL FOR UST: Clearwater / Recycle

9) LOCATIONS OF ANALYTICAL SAMPLES:

SAMPLE #1:
SAMPLE #2: Sampled by AMEC
SAMPLE #3:
SAMPLE #4:

10) COMMENTS FROM UST CLOSURE:

11) ANALYTICAL TEST RESULTS (OFFICE USE ONLY):
Sampled by AMEC

12) SIGNATURE: [Handwritten Signature] DATE: 4/25/08



CONSTRUCTION CORP.

NEVADA LICENSE # 19292 - LIMIT \$6 MILLION
CALIFORNIA LICENSE # 682446

EXCAVATION • GRADING • PIPELINE • UNDERGROUND • UTILITY CONTRACTORS
FUEL TANK SPECIALISTS

UNDERGROUND STORAGE TANK REMOVAL/CLOSURE REPORT

1) LOCATION & OWNER OF UST: City of Reno
1405 Oliver
Reno, NV

2) REGULATED UST: X NON-REGULATED UST:

3) DATE OF CLOSURE: 4/25/08

4) PERMIT NUMBER: Permit/ but no number

5) UST DIMENSIONS:(LENGTH) 28' (DIAMETER) 8'

6) DEPTH TO TOP OF UST: 30"

7) LEL%: 0%

8) METHOD OF DISPOSAL FOR UST: Clearwater / recycle

9) LOCATIONS OF ANALYTICAL SAMPLES:

SAMPLE #1:
SAMPLE #2: sampled by AMEC
SAMPLE #3:
SAMPLE #4:

10) COMMENTS FROM UST CLOSURE:

11) ANALYTICAL TEST RESULTS (OFFICE USE ONLY):
sampled by Amec

12) SIGNATURE: [Signature] DATE: 4/25/08

**CITY OF RENO  
PERMIT FOR ABANDONMENT OF UNDERGROUND  
TANKS AND PIPING**

DATE: 4/21/08 FEE:

LOCATION: 1405 Oliver Ave

PERMITTEE: Bramco Construction PHONE: 356-1781

OWNER: City of Reno PHONE: \_\_\_\_\_

AGE OF TANK (EST) UNKNOWN TANK CAPACITY: 2 EACH 10K UST'S

MATERIAL OF TANK CONSTRUCTION: Steel

LAST STORED SUBSTANCE: Gasoline

**SAFETY STEPS**

1. Secure work area with safety lines or barricades before beginning.
2. Locate underground utilities and mark.
3. Remove all source of probable ignition.
  - a) ground motorized equipment.
4. Remove product from tank and piping.
5. Remove piping to furnace.
6. Sand combustible liquid tanks to absorb sludge at a rate of 50 lbs. per every 200 gallons of tank capacity.
7. Check LEL.
8. Fill the tank with slurry.

FIRE INSPECTOR  
FINAL APPROVAL: *Neil Ren* 4/25/08

CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.

2430 Almond Drive - P. O Box 349 - Silver Springs, NV 89429-0349

PH (775) 577-9001 FAX (775) 577-9199

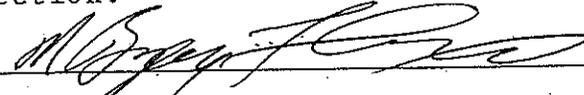
EPA # NVD982358483 FED ID #88-0320454

Sales Dispatch (800) 471-2105

CERTIFICATE OF DESTRUCTION

This certifies that the materials listed below are being sent offsite for destruction/recycling by Clearwater Environmental Management, Inc. (Generator) from their facility located at 2430 Almond Drive, -Silver Springs, NV.

The following underground storage tanks (UST) have been rendered harmless in accordance with NAC 444.84555 regulatory requirements and in compliance with Clearwater's UST Written Determination of Hazardous Waste Recycling of Petroleum USTS from the State of Nevada, Division of Environmental Protection.

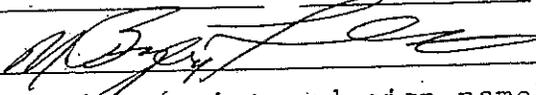
Certified by: X  Date 4-25-08  
N. Bryan Fabian, Manager (Generator)

CERTIFICATE OF ACCEPTANCE

These tanks have/will be disposed of as scrap metal or otherwise recycled by the following Recycler: Clearwater Environmental Management Inc. at their approved facility located at 2430 Almond Drive - Silver Springs, NV 89429 Phone #775-577-9001

TANK DESCRIPTION: (to be completed by Recycler)

<u>Date Received</u>	<u>Tank #</u>	<u>Manifest/BOL #</u>	<u>Tank Size</u>	<u>Date of Disposal</u>
<u>4-25-08</u>	<u>NV 04-02-08</u>	<u>172191</u>	<u>10,000 Gal.</u>	<u>4-25-08</u>
<u>4-25-08</u>	<u>NV 04-03-08</u>	<u>172191</u>	<u>10,000 Gal.</u>	<u>4-25-08</u>

Received and accepted by: X  Date 4-25-08  
Recycler (print and sign name)

Original to Recycler, Copy to Clearwater EMI, Copy to Generator's NDEP UST File.



# CERTIFICATE OF RECYCLING

Presented to

BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO..... on the date 4-17-08.....  
Manifest # 172041..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



.....  
Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

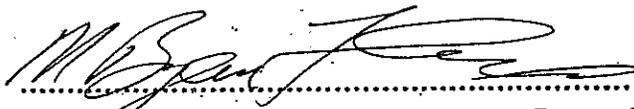
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
City of Reno ..... on the date 4-14-08 .....  
Manifest # 171745 ..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

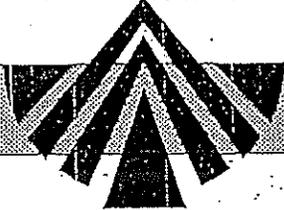
CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

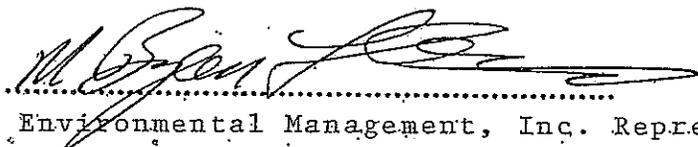
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO..... on the date 4-15-08  
Manifest # 171747..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

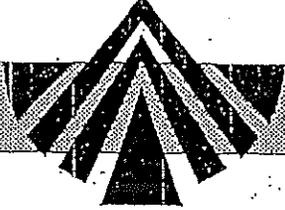
CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



.....  
Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

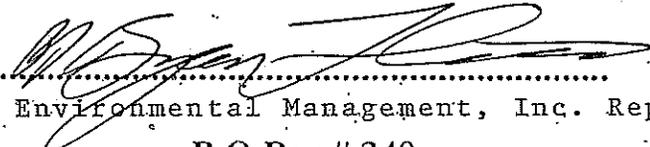
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO ..... on the date 4-16-08  
Manifest # 172037 ..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



.....  
Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

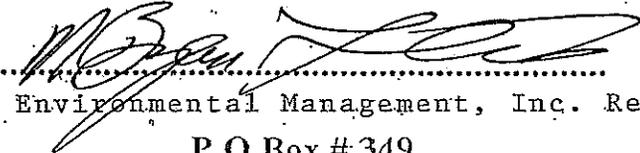
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO..... on the date...4-16-08  
Manifest #.172036..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

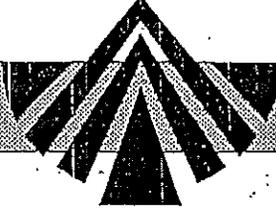
CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



.....  
Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

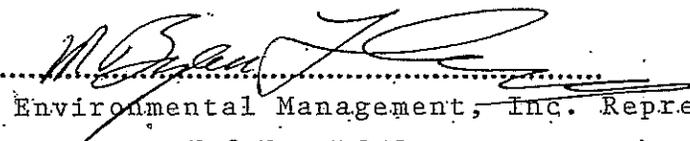
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO ..... on the date 4-15-08  
Manifest # 171746 ..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001





# CERTIFICATE OF RECYCLING

Presented to

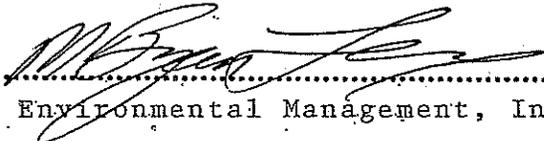
BRAMCO CONSTRUCTION

---

This is to certify that the waste stream received from  
CITY OF RENO..... on the date 4-21-08  
Manifest # 172048..... was recycled by Clearwater EMI,  
in accordance with all State and Federal Regulations.

Presented by

CLEARWATER ENVIRONMENTAL MANAGEMENT, INC.



.....  
Your Clearwater Environmental Management, Inc. Representative

P O Box # 349  
Silver Springs, NV 89429

(775) 577-9001

