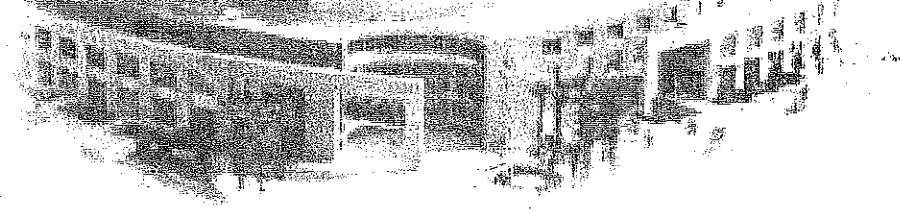


**PHASE II ENVIRONMENTAL SITE ASSESSMENT  
PROPOSED ALBUQUERQUE ARENA SITE  
DOWNTOWN ALBUQUERQUE, NEW MEXICO**



**PREPARED FOR:**



**HUNT CONSTRUCTION GROUP, INC.  
426 NORTH 44<sup>TH</sup> STREET, SUITE 410  
PHOENIX, ARIZONA 85008**

**PREPARED BY:**



**AMEC EARTH AND ENVIRONMENTAL, INC.  
8519 JEFFERSON STREET NE  
ALBUQUERQUE, NEW MEXICO 87113**



August 25, 2004

Mr. Ed Adams  
City of Albuquerque  
Department of Municipal Development  
One Civic Plaza, 7<sup>th</sup> Floor  
Albuquerque, NM 87102

Re: Albuquerque Arena  
Phase II Environmental Report

Dear Mr. Adams:

As a follow up to my letter, dated August 10, 2004, enclosed you will find a copy of the Final Phase II Environmental Report for the Albuquerque Arena Project.

Conclusions and recommendations within the report remain the same as the preliminary report, which indicate that a zone of diesel contamination is present within the site subsurface. This material should be excavated from the proposed limits of the arena excavation and should be disposed off site at an approved landfill/landfarm facility.

Pursuant to our recent conversations, Hunt Construction Group will prepare a cost proposal to abate these materials and submit to you for your review.

If you have any questions and/or comments relative to the above, please give me a call.

Sincerely,

A handwritten signature in black ink, appearing to read "RONALD D. WILDERMUTH".

**RONALD D. WILDERMUTH**  
Contract Manager

RDW/ms  
Enclosure

cc: William M. Dutton – AMC w/ encl.  
George R. "Pat" Bryan, III w/encl.  
Eric Randolph – Rossetti w/encl.  
L. Brad Sumrall – Bohannan Huston w/encl.  
Estimating w/encl.

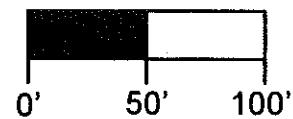
04 AUG 26 PM 9:20  
CITY OF ALBUQUERQUE  
CAPITAL IMPROVEMENTS  
DEPARTMENT OF MUNICIPAL DEVELOPMENT

## LEGEND

- P-1 - Direct Push Core Location and Label

ND (lab results)  
not 12  
P-1

>2200 mg/kg  
DRO  
Somewhere in  
boring



APPROX. SCALE  
1 inch = 100 feet



## TABLE OF CONTENTS

	<u>page</u>
1.0 INTRODUCTION .....	1
2.0 BACKGROUND.....	1
3.0 PROCEDURES .....	2
3.1 DIRECT- PUSH SOIL SAMPLING AND ANALYSIS .....	2
3.2 GROUNDWATER MONITOR WELL INSTALLATION.....	3
3.3 FLUID LEVEL GAUGING AND GROUND-WATER SAMPLING .....	3
4.0 RESULTS.....	4
4.1 DIRECT-PUSH SOIL SAMPLING AND ANALYSIS .....	4
4.2 FLUID LEVEL GAUGING AND GROUND-WATER SAMPLING .....	5
5.0 CONCLUSIONS AND RECOMMENDATIONS .....	6
6.0 REFERENCES.....	8

## TABLE

TABLE 1 DIRECT PUSH CORE RESULTS SUMMARY

## FIGURES

FIGURE 1	SITE LOCATION MAP
FIGURE 2	SITE MAP
FIGURE 3	DIRECT PUSH CORE SAMPLING LOCATIONS
FIGURE 4	MONITOR WELL LOCATION MAP
FIGURE 5	MAP OF EXTENT OF PETROLEUM CONTAMINATION
FIGURE 6	SURFACE TOPOGRAPHY MAP
FIGURE 7	CLAY LAYER TOPOGRAPHY MAP
FIGURE 7A	CLAY SURFACE TOPOGRAPHY MAP – 3D PERSPECTIVE
FIGURE 8	CONTAMINATION SURFACE TOPOGRAPHY MAP
FIGURE 8A	CONTAMINATION SURFACE TOPOGRAPHY MAP – 3D PERSPECTIVE
FIGURE 9	GROUNDWATER CONTOUR MAP
FIGURE 10	GROUNDWATER CONTAMINATION RESULTS SUMMARY MAP

## 1.0 INTRODUCTION

AMEC Earth & Environmental, Inc. (AMEC) was contracted to perform a Phase II Environmental Site Assessment (ESA) for the proposed Albuquerque Arena site, which is located in downtown Albuquerque within the city block defined by Central Avenue, Second Street, Copper Avenue and the BNSF Railroad easement. The objectives of this Phase II ESA consist of the following:

1. Research the site and vicinity regarding known or suspected sources of contamination and any associated corrective actions performed.
2. Evaluate the nature and extent of subsurface, petroleum-based contamination discovered during the geotechnical investigation fieldwork performed by AMEC in May 2004.
3. Evaluate the potential impact of soil and groundwater contamination identified during the Phase II ESA on the planned development of the property.

AMEC accomplished these objectives by completing a review of New Mexico Environment Department files related to the property and adjoining properties and performing fieldwork consisting of direct-push soil sampling, monitor well installation, and ground water sampling. Soil and ground water samples were submitted for analysis via EPA-approved methods to evaluate the contamination encountered during fieldwork.

## 2.0 BACKGROUND

AMEC completed on-site fieldwork associated with a geotechnical engineering study during May 2004. Petroleum-based soil contamination was encountered in soil borings advanced in the eastern portion of the site as a part of this geotechnical study. AMEC also conducted a Phase I ESA for the property to obtain information on any recognized environmental conditions that might be present at the site and in the site vicinity. The results of the Phase I ESA and the unexpected discovery of petroleum contamination in the geotechnical borings indicated the potential for impact to the proposed development of the property as a result of petroleum-based soil and possibly groundwater contamination beneath the site surface. Consequently, AMEC was contracted by Hunt Construction Group to conduct a Phase II ESA to further evaluate these potential impacts.

As a first step in the Phase II ESA, AMEC examined available files located at the New Mexico Environment Department (NMED). The file review indicated that a diesel-contaminated site is located adjacent to the eastern boundary of the proposed arena site. This adjacent site is known as the Burlington Northern and Santa Fe Railway Company (BNSF) Albuquerque Fueling Area and it is currently undergoing investigation and abatement activities under the guidance of NMED. AMEC reviewed two reports on the BNSF Fueling Area site which contained a description of the most recent groundwater sampling (performed in November of 2003) and the results of shallow soil remediation following a petroleum spill that emanated from the BNSF site and extended onto the Albuquerque Arena development site. Remediation activities consisted



of excavating and disposing of contaminated soils to an approximate depth of 4-feet below ground surface (BGS) and were completed in the fall of 2001. The referenced reports are:

1. Eastbound Fueling Facility - Oil-Water Separator Release - Corrective Action Report, BNSF Albuquerque Yard – Fueling Area, Albuquerque, New Mexico, January 14, 2002, by ERM- Rocky Mountain, Inc.
2. Phase 2 Stage 1 Groundwater Abatement Plan – Fourth Quarter 2003 – Groundwater Monitoring Report, BNSF Albuquerque Fueling Area, Albuquerque, New Mexico, February 24, 2004, by ERM- Rocky Mountain, Inc.

The approximate limits of the BNSF Albuquerque Fueling Area and the Albuquerque Arena development sites are shown in Figure 1. There appear to be three source areas associated with the BNSF site. One area is located in the southern portion of the BNSF easement and does not affect the proposed arena site. The other two source areas consist of the former Aboveground Storage Tank (AST) and associated dispensing system and the oil-water separator, which are located in the northern portion of the BNSF easement. These two sources are immediately adjacent to the eastern boundary of the proposed arena site.

Based on information contained in the BNSF Groundwater Monitoring Report (Reference 2 above) the AST was located immediately adjacent to the eastern-central portion of the Albuquerque Arena development site and is the most likely source for subsurface diesel contamination present on the arena site. Diesel-borne contamination (poly-aromatic hydrocarbons or PAHs) was present in a dissolved phase in groundwater samples collected from five (5) monitoring wells located on the BNSF Albuquerque Fueling Area site and east of the proposed arena site. In addition, the implied direction of groundwater flow is toward the east, away from the proposed arena site with respect to the location of the BNSF Albuquerque Fueling Area site.

### 3.0 PROCEDURES

On July 15, 2004, AMEC personnel arrived on site to initiate field activities. This included layout of proposed sampling locations and subsurface utility clearance. Fieldwork consisting of direct push coring was performed between July 19 and July 22, 2004. Groundwater monitoring wells were installed between July 22 and July 24, 2004. Groundwater samples were collected on July 26, 2004. A detailed description of field procedures is provided below.

#### 3.1 DIRECT-PUSH SOIL SAMPLING AND ANALYSIS

Soil sampling sites (see Figure 4) were located based on the earlier identification of diesel compounds in geotechnical investigation borings. Soil core samples were obtained using the direct push method, which uses a polyethylene-sampling sleeve held in place in a 1.25-inch diameter core barrel by a removable rod. The core barrel is advanced in five-foot intervals by truck-mounted hydraulics and a percussion hammer. Sample recovery is near 100 percent.



Five-foot interval soil samples from each Direct Push Core (DPC) were placed in plastic sample bags and sealed for heated-headspace analysis. The samples were warmed to approximately 85° F and then tested for volatile organic compounds (VOCs) using a Thermo-Environmental® Model 580-B photoionization detector (PID). Prior to use each day, the PID was calibrated in the field using a two-point method. First, the PID was zeroed by drawing a sample of ambient air through a cartridge filled with granular activated carbon. The second calibration sample was drawn from a cylinder of nitrogen gas containing 100 parts per million volume/volume (ppm-v) isobutylene. Following the VOC field-screening procedure, soil samples were visually characterized and logged.

One- to four samples were taken from each DPC for analysis of Diesel Range Organics (DRO) and Gasoline Range Organics (GRO). Each DRO sample was taken from an approximate one-foot interval and placed in a sealed jar. The accompanying GRO sample for each DRO sample was taken from the same interval using an open-ended ten cubic centimeter (CC) syringe and then extruded into a vial of methanol for digestion. Sample intervals were selected for chemical analysis based on visual inspection of the core and odor detection.

Three DPCs in the most heavily contaminated area (P-1, P-2 and P-3) of the site were selected for composite samples. For each of these boreholes, subsequent to discrete sampling, the entire soil core from the contaminated interval was mixed in a plastic bag until homogeneous, and then sampled. The three composites were submitted for analysis of volatile and semi-volatile compounds, via EPA methods 8260 and 8270.

### **3.2 GROUNDWATER MONITOR WELL INSTALLATION**

Three groundwater monitoring wells were installed at the site at locations as shown in Figure 3. The wells were completed in general accordance with NMED monitor well completion specifications and range in depth from approximately 55 to 60 feet BGS. Monitor wells were constructed so that the screen section spanned the air/water interface.

Schedule 40, 2-inch diameter PVC pipe and screen (0.010-inch slot) were used for construction of the wells. Pipe joints were threaded with a rubber O-ring seal. Filter pack comprised of 10/20 silica sand was placed around and approximately 2 feet above the well screen section. Approximately 3-feet of bentonite in the form of 3/8-inch chips was placed above the sand pack and hydrated with tap water. The remainder of the annulus around the riser pipe was filled with expansive grout comprised of Portland cement water and bentonite (>15% by volume). Each monitor well was completed with flush-mount manhole covers and locking caps.

*At monitor well location MW-3 a significant amount of debris was observed in the soil cuttings. The debris predominantly consisted of wood and concrete, and was encountered between approximately 5- and 35-feet BGS.*

### **3.3 FLUID LEVEL GAUGING AND GROUND-WATER SAMPLING**

The relative elevation of the top-of-casing (TOC) at each well was measured in the field on July 26, 2004 using a level-gun and support equipment. A V-shaped notch blackened with an indelible marker was scribed into the TOC at each well. This notch provides a consistent location for well-gauging measurements.



Each newly installed well was developed using a PVC bailer. Bailers and associated materials were decontaminated using Alconox/water solution and triple rinse prior to immersion into wells. Bailers were used to surge wells and purge a minimum of five times the volume of the water column in the well.

AMEC collected water samples from each of the monitor wells on July 26, 2004. Prior to collection of ground-water samples, liquid-level gauging was performed at each well using a Heron® model H.02L interface probe. Each measurement was made from the scribed mark at the top of each well casing.

Each well was sampled using a disposable Teflon® lined bailer lowered on clean, new nylon cord. Ground-water samples from all other monitor wells were collected immediately following development. Water samples from each well were submitted for analysis via EPA method 8015B for DRO and GRO, EPA method 8260 for VOCs and EPA method 8310 for PAHs.

## 4.0 RESULTS

Field and laboratory analytical results are summarized on Table 1 and Figures 5 through 9. A detailed description of the results is provided below.

### 4.1 DIRECT-PUSH SOIL SAMPLING AND ANALYSIS

Direct push soil sampling results are summarized on Table 1 and Figures 5 through 8. The soil lithology and indication of diesel contamination observed in each of the 20 DPCs are shown on Table 1. As shown in Figure 5, the diesel contamination is confined to the eastern portion of the site, extending between approximately 80 and 150 feet west of the eastern site boundary, forming an approximate "wedge-shaped" zone of impact. The extent of petroleum contamination is shown in Figure 5. The topography of the site surface is shown in Figure 6 and the configuration of a continuous clay layer encountered between 19 and 25 feet BGS is shown in Figure 7. The surface contours of the contaminated soils are shown in Figure 8. Three-dimensional perspectives of the clay layer and contamination topography are shown in Figure 7A and 8A, respectively.

Analytical results from the DPC samples indicate that the contamination encountered was diesel fuel oil. The highest levels of diesel contamination were encountered in the eastern-central portion of the site. Samples collected from between 8- and 32-feet BGS at DPCs P-1, P-2, and P-3 ranged between 74- and 8400-milligrams diesel per kilogram of soil (mg/kg). In addition, a branch of high-level diesel contamination appears to extend from the east-central portion of the site towards the west. Samples collected from between 22- and 29-feet BGS at DPCs P-9 and P-10 ranged between 2700- and 6300-mg/kg. The horizontal limit and vertical extent to 32-feet BGS of diesel contamination were defined based on field screening results, laboratory analysis results and visual/olfactory observation from DPC locations P-7, P-8, P-12/P-12A, P-13, and P-16. Motor oil and gasoline range organics were not detected above the method detection limit in the DPC samples submitted for analysis. Diesel range organics analysis results are summarized on Table 1.



Results of the VOC and Semi-volatile organic compound (SVOC) analyses performed on the three samples composited from DPCs P-1, P-2 and P-3 identified seven (7) compounds at detectable levels as follows:

- 1-Methylnaphthalene (6.9-mg/kg at P-1, 4.3-mg/kg at P-2 and 1.1-mg/kg at P-3)
- 2- Methylnaphthalene (1.9-mg/kg at P-1, 3.2-mg/kg at P-2 and 0.43-mg/kg at P-3)
- n-Butylbenzene (0.41-mg/kg at P-1, ND at P-2 and ND at P-3)
- Di-n-butyl phthalate (ND at P-1, ND at P-2 and 0.29-mg/kg at P-3)
- Dibenzofuran (0.42-mg/kg at P-1, ND at P-2 and ND at P-3)
- Fluorene (0.70-mg/kg at P-1, ND at P-2 and ND at P-3)
- Phenanthrene (1.2-mg/kg at P-1, 0.22-mg/kg at P-2 and ND at P-3)

Each of the compounds listed above is associated with diesel fuel. Compounds unrelated to diesel fuel and analyzed for as a part of the VOC and SVOC analyses were not detected above the methods detection limits. Analytical data sheets are attached in Appendix A.

#### 4.2 FLUID LEVEL GAUGING AND GROUND-WATER SAMPLING

Groundwater appears to flow toward the east at an approximate gradient of 0.006 feet/foot. Phase separated hydrocarbons (PSH) or floating free product was not detected in any of the wells. Groundwater contours and the implied direction of flow are shown in Figure 9. The table below summarizes the fluid-level gauging data.

SUMMARY OF FLUID LEVEL GAUGING DATA

Monitor Well	Top of Casing (feet)	Depth to Water (feet)	Groundwater Elev. (feet)
MW-1	94.58	40.19	54.39
MW-2	100.00	47.37	52.63
MW-3	96.58	43.95	52.63

Notes:

1. Monitor well locations and groundwater contours shown in Figure 9.
2. Top of well casing at monitor well MW-2 was arbitrarily set to 100.00 feet.

In general, the results from fluid level gauging indicate the groundwater flow direction and gradient on the arena development site are consistent with information reported in the most recent groundwater sampling performed at the BNSF Albuquerque Fueling Area site (reference 2 above).

During sampling activities, diesel odors and discoloration were observed in the water sample collected from MW-3. Evidence of diesel contamination was not observed in the water samples collected from the other wells; MW-1 and MW-2.



Dissolved diesel contamination was detected in the water sample collected from MW-3 at concentration of 7100 µg of DRO per liter of groundwater (µg/l). Dissolved diesel contamination was not detected above method detection limits in samples collected from MW-1 or MW-2. In addition, results from laboratory analysis showed that MW-1 did not contain any detectable levels of VOCs or PAHs by EPA methods 8260 and 8310. On the other hand, results from VOCs or PAHs analyses performed on the groundwater samples collected from MW-2 and MW-3 identified nine (9) compounds at detectable levels as follows:

- Benzo(k)fluoranthene (0.030 µg/ by EPA 8310 at MW-2 and ND at MW-3)
- Dibenz(a,h)anthracene (0.090 µg/ by EPA 8310 at MW-2 and ND at MW-3)
- Naphthalene (ND at MW-2 and 15 µg/l by EPA 8310 at MW-3)
- 1-Methylnaphthalene (ND at MW-2 and 89 µg/l by EPA 8310 at MW-3)
- 2- Methylnaphthalene (ND at MW-2 and 35 µg/l by EPA 8310 at MW-3)
- n-Butylbenzene (ND at MW-2 and 2.9 µg/l by EPA 8260 at MW-3)
- sec-Butylbenzene (ND at MW-2 and 2.2 µg/l by EPA 8260 at MW-3)
- Fluorene (ND at MW-2 and 7.1 µg/l by EPA 8310 at MW-3)
- Phenanthrene (ND at MW-2 and 10 µg/l by EPA 8310 at MW-3)

Similar to the composite soil analysis results, each of the compounds listed above is associated with diesel fuel. Compounds unrelated to diesel fuel and analyzed for as a part of the VOC and PAH analyses were not detected above the methods detection limits. Analytical data sheets are attached in Appendix A.

## 5.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the Phase II ESA, as described above, AMEC has concluded the following:

- A wedge-shaped zone of diesel contamination is present in soils in the site subsurface. The contamination is encountered at between approximately 4-feet and 15-feet BGS along the eastern edge of the property and drops off to below 30-feet BGS between 80 and 150 feet west of the eastern edge of the property.
- Groundwater beneath the site does contain petroleum hydrocarbon contaminants. Groundwater flow direction is currently to the east, indicating that any contaminants that leach from the impacted soil into the groundwater will likely be directed away from the site toward the east, unless groundwater flow direction changes in the future.
- A continuous clay layer is present between approximately 19- and 25-feet BGS as described in the earlier geotechnical investigation. However, this clay layer undulates and varies in thickness with greater variation than previously described. In addition, this clay layer does not appear to impede the downward migration of diesel contamination.



- The source of diesel contamination appears to emanate from the BNSF Albuquerque Fueling Area site. This site is a well-documented source of diesel contamination and is located immediately adjacent to the site's eastern boundary.

The presence of diesel-contaminated soils and the continuous clay layer both represent potential impacts to construction of the proposed Albuquerque Arena. The contaminated soils represent a possible health hazard to construction workers who might come in contact with the soils and the clay layer represents a geotechnical condition that must be considered in foundation design. In addition, if soil contamination is not addressed, it could pose a potential health and safety hazard during operation of the arena facility if hydrocarbon vapors migrate from the impacted soils into the facility. Even if contaminated soils are removed from the arena property entirely, there is the potential that the site could be re-contaminated if there is a continuing source of contamination offsite to the east of the property (i.e., the BNSF Fueling Area). Given the results of the Phase II ESA and the considerations described above, AMEC offers the following recommendations:

1. AMEC's Geotechnical Engineering Study Report (AMEC, June 23, 2004) should be amended to include analysis and discussion of additional information acquired during this Phase II ESA on the following:
  - a. The thickness and configuration of the clay layer and its influence on foundation design;
  - b. The debris (timbers, concrete, etc) discovered in auger cuttings during the installation of MW-3 and its influence on the excavation and excavation bracing/shoring design; and
  - c. The diesel contamination and its possible detrimental impact to soil physical properties.
2. A remedial design should be completed to address the soil contamination present at the site, as well as the potential for continuing contamination of the site from source areas that may be located east of the property boundary. This remedial design should be integrated with the facility construction design. The remedial design should consider cost of various remedial alternatives as well as the potential for hydrocarbon vapors to migrate from contaminated soils into the future arena facilities. Possible components of the remedial design might include:
  - a) Excavation and removal of diesel contaminated soils from the construction footprint. Soil excavation must be performed by contractors who are properly trained and licensed to handle and transport petroleum-contaminated materials. Contaminated soil must be disposed of at a permitted landfill or landfarm facility.
  - b) Over excavation of the diesel impacted soils both vertically and horizontally outside the limits of the proposed arena facility. This would require engineered backfill and may integrate favorably with facility foundation design. Over excavation in the vertical direction would have the added benefit of removing the undulating clay layer.
  - c) Installation of a soil vapor extraction (SVE) system or additional soil excavation and removal in the area of impacted soils located outside of the construction footprint (in



the eastern portion of the contaminated area) if these measures are determined necessary to mitigate the potential for migration of hydrocarbon vapors from contaminated soils into the future arena facilities.

- d) Coordination of arena property remediation efforts with BNSF Fueling Area remediation efforts to ensure removal of offsite contaminant sources that might result in continuing contamination of the arena property. Alternatively, a soil vapor monitoring system could be installed along the eastern edge of the arena property; however this would create an on-going operations and maintenance requirement for the facility.
- e) Installation of a suitable vapor/liquid barrier and/or collection system in the arena foundation design if necessary to mitigate the potential for hydrocarbon vapor or liquid phase contaminants to migrate into the arena facility.

These recommended alternatives are not intended to be comprehensive. Suitable alternatives can only be identified, evaluated, and selected as part of a remedial design effort that is outside of the scope of this Phase II ESA. Any effective remedial design must be integrated with the arena construction design and must take into consideration the plans and schedules for offsite contaminant source control.

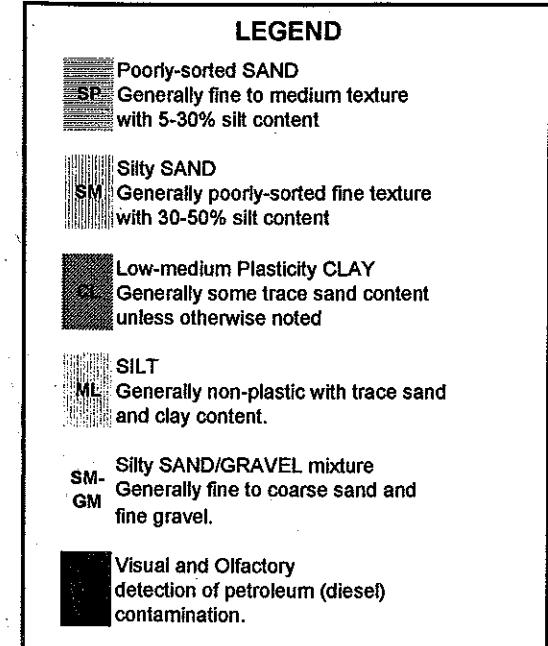
## 6.0 REFERENCES

1. *Geotechnical Engineering Study Report*, Albuquerque Arena Project -Central Avenue between 1<sup>st</sup> and 2<sup>nd</sup> Streets, N.W. - Albuquerque, New Mexico, June 23, 2004, by AMEC Earth and Environmental, Inc.
2. *Phase I Environmental Site Assessment Report*, Albuquerque Arena Project -Central Avenue between the Railroad and Second Street, N.W. - Albuquerque, New Mexico, June 21, 2004, by AMEC Earth and Environmental, Inc.
3. *Eastbound Fueling Facility - Oil-Water Separator Release - Corrective Action Report*, BNSF Albuquerque Yard – Fueling Area, Albuquerque, New Mexico, January 14, 2002, by ERM- Rocky Mountain, Inc.
4. *Phase 2 Stage 1 Groundwater Abatement Plan – Fourth Quarter 2003 – Groundwater Monitoring Report*, BNSF Albuquerque Fueling Area, Albuquerque, New Mexico, February 24, 2004, by ERM- Rocky Mountain, Inc.
5. *Waste Containment Systems, Waste Stabilization, and Landfills - Design and Evaluation*, H.D. Sharma and Lewis, S.P., John Wiley & Sons, Inc., 1994.



TABLE 1  
DIRECT PUSH CORE RESULTS SUMMARY

DEPTH (ft BGS)	P-1			P-2			P-3			P-4			P-5			P-6			P-7			P-8			P-9			P-10						
	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO	lithology	vis / odor	PID	DRO						
0													SP				SP				SP				SP									
1													SM							ND				SP										
2													SM				SM				SP				SP									
3													ASYLUS				SM				SM				SM									
4																				ND				SM										
5													240	2	1240			ND			ND				ND									
6													SP												SP									
7													SP												SP									
8													SP												SP									
9													74		250		110								SP									
10													SM		2700	SP	ND								ND		SM		692		1720			
11													SP				SP								SP									
12													CL				SP								SP									
13													SM				SP								SP									
14													SM				SP								SP									
15													2500		1270	2540	190		44	8.9		ND			ND			3020		1090				
16																									SP									
17													SP												SP									
18																	SP								SP									
19																									SM									
20													1410		3350		1230		2650	1300		ND			ND			2920		3420				
21																	290																	
22																	CL		SP															
23																	ML		8400		3120		END PROBE @ 23' BGS											
24																																		
25													3390		3100			1650			ND			345			ND			4680	SP	5000		
26																	SP																	
27																																		
28																			280															
29													SM		2830		2200																	
30																	SM		1820		1000	SM-GM	END PROBE @ 31' BGS											
31																	SM-GM																	
32																																		



#### NOTES

- 1 ft BGS - feet below ground surface
- 2 Lithology based on 1.2-inch diameter direct push core samples collected using probe rig by Environmental Services Network Southwest, Inc.
- 3 PID - results from field screening using a photo-ionization detector calibrated using 100-parts per million isobutylene span gas. Results are expressed in parts per million by volume.
- 4 ND - not detected above method reporting limit.
- 5 DRO - diesel range organics concentration per EPA method 8015B (GC/MS). Results are expressed in parts per million by mass or milligrams of diesel per kilogram of soil.
- 6 Direct Push Sampling was terminated at 32-feet BGS unless otherwise noted.

TABLE 1  
DIRECT PUSH CORE RESULTS SUMMARY

DEPTH (ft BGS)	P-11				P-12 / P-12A				P-13				P-14				P-15				P-16				P-17				P-18				P-19				P-20				
	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO	lith. ology	vis / odor	PID	DRO									
0									SM				SM																												
1									SM																																
2									SP				CL				SM				SM																				
3										CL			SM					SP																							
4										SP																															
5											ND		ND				ND		CL		ND																				
6											ND		ND					ND		CL		ND																			
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23																		ML		ML																					
24																		ND		ND																					
25																		ND		ND																					
26																		3.3		ND																					
27																																									
28																																									
29																																									
30																		SM-GM		ND																					
31																																									
32																		SM-GM		ND																					

**LEGEND**

- Poorly-sorted SAND
- SP Generally fine to medium texture with 5-30% silt content
- Silty SAND
- SM Generally poorly-sorted fine texture with 30-50% silt content
- Low-medium Plasticity CLAY
- CL Generally some trace sand content unless otherwise noted
- SILT
- MU Generally non-plastic with trace sand and clay content.
- Silty SAND/GRAVEL mixture
- SM-GM Generally fine to coarse sand and fine gravel.
- Visual and Olfactory detection of petroleum (diesel) contamination.

#### NOTES

- 1 ft BGS - feet below ground surface
- 2 Lithology based on 1.2-inch diameter direct push core samples collected using probe rig by Environmental Services Network Southwest, Inc.
- 3 PID - results from field screening using a photo-ionization detector calibrated using 100-parts per million isobutylene span gas. Results are expressed in parts per million by volume.
- 4 ND - not detected above method reporting limit.
- 5 DRO - diesel range organics concentration per EPA method 8015B (GC/MS). Results are expressed in parts per million by mass or milligrams of diesel per kilogram of soil.
- 6 Direct Push Sampling was terminated at 32-feet BGS unless otherwise noted.



Phase II  
ESA

Site Location Map

Figure 1

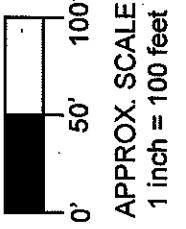
amec

Albuquerque Arena Project

August 2004



APPROXIMATE  
LIMITS OF  
PROPOSED  
ARENA  
STRUCTURE



Phase II  
ESA

Site Map

Figure 2

**amec**

Albuquerque Arena Project

August 2004



**LEGEND**

- P-1 - Direct Push Core Location and Label



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

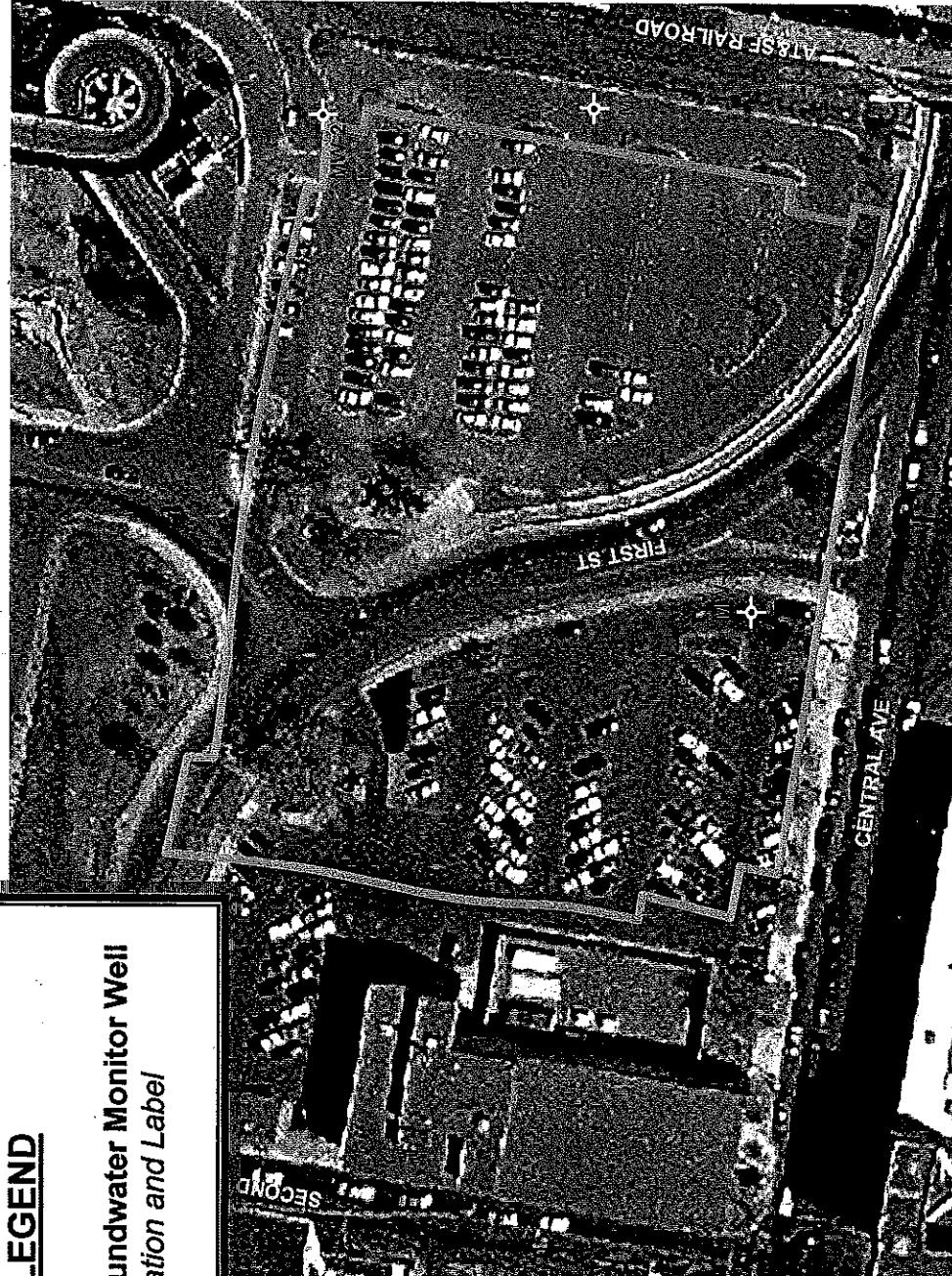
**amec**

Direct Push Core Sampling Locations

Figure 3

Albuquerque Arena Project

August 2004



LEGEND

- MW-1 - Groundwater Monitor Well  
Location and Label



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

**amec**

Monitor Well Location Map

Figure 4

Albuquerque Arena Project

August 2004



## LEGEND

- Direct Push Core Location
- 5' - Area of Petroleum Contamination  
Contour lines show depth  
(feet below ground surface) to the  
onset of contamination. Once (if)  
encountered the contamination  
extended to the bottom of each core.



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

Map of Extent P.D. reading?  
What defines  
contamination?

amec

tion

Figure 5

August 2004



## LEGEND

- - Direct Push Core Location
- MW-2 - Groundwater Monitor Well Location and Label
- / - Ground Surface Contour  
Relative elevation based on top of casing at MW-2 set at 100.00 feet.



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

**amec**

Surface Topography Map

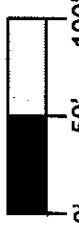
Figure 6

Albuquerque Arena Project  
August 2004



### LEGEND

- - Direct Push Core Location
- MW-2 - Groundwater Monitor Well Location and Label
- ~ - Clay Surface Contour  
Relative elevation based on top of casing at MW-2 set at 100.00 feet.



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

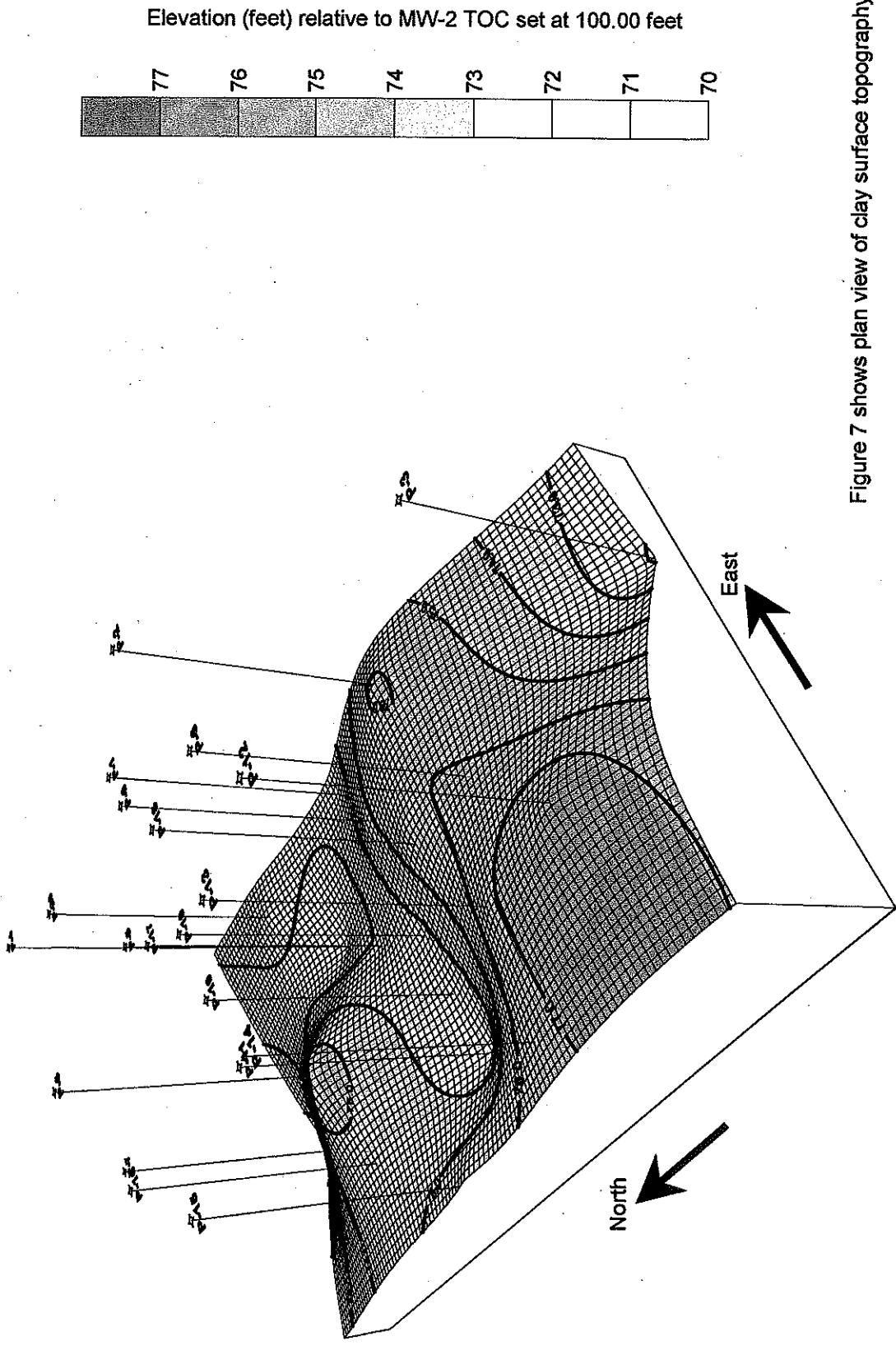
**amec**

Clay Layer Topography Map

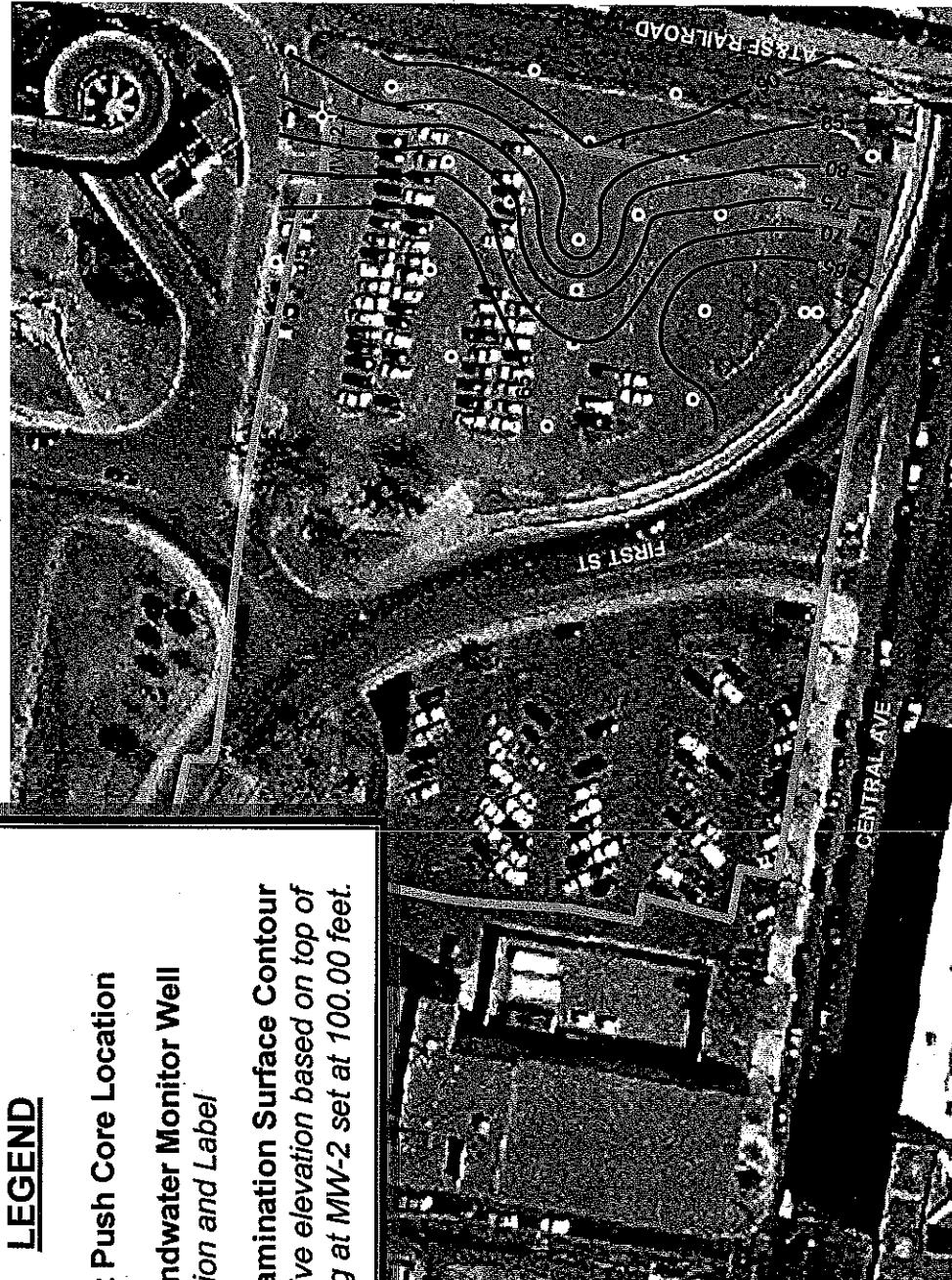
Figure 7

Albuquerque Arena Project

August 2004



Phase II ESA	Clay Surface Topography Map – 3D Perspective	Figure 7A	August 2004
	Albuquerque Arena Project	amec	



## LEGEND

- Direct Push Core Location
- MW<sub>2</sub> - Groundwater Monitor Well Location and Label
- 65 - Contamination Surface Contour Relative elevation based on top of casing at MW-2 set at 100.00 feet.



APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

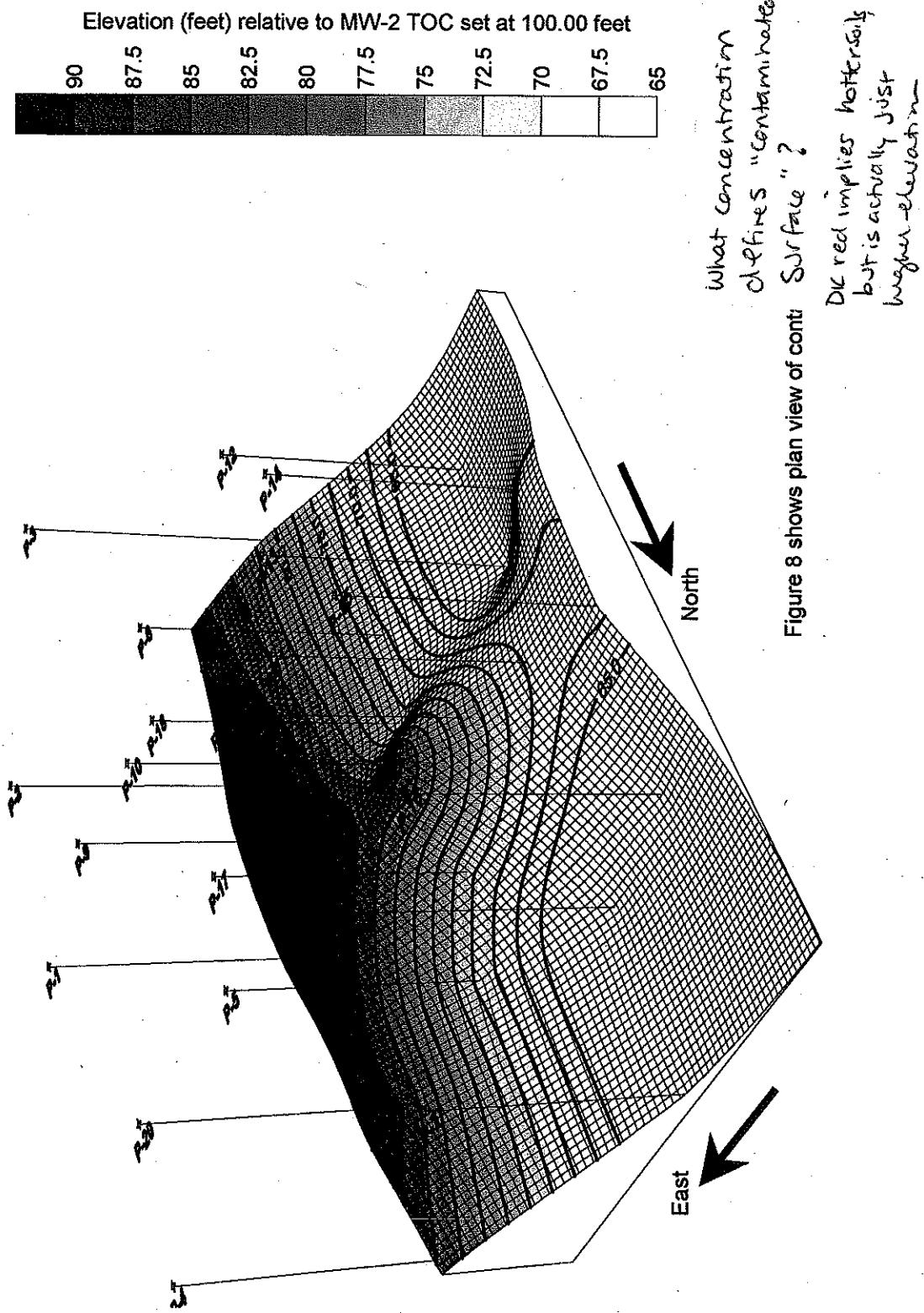
**amec**

Contamination Surface Topography Map

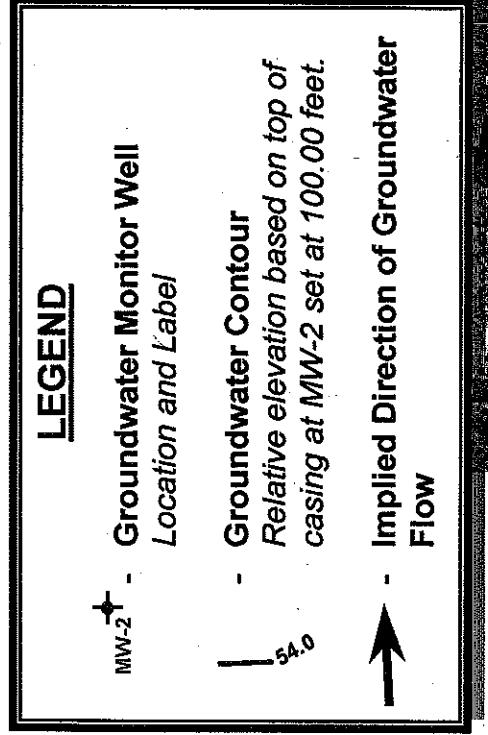
Figure 8

Albuquerque Arena Project

August 2004



Phase II ESA	Contamination Surface Topography Map – 3D Perspective	Figure 8
amec	Albuquerque Arena Project	August 2004



0' 50' 100'  
APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

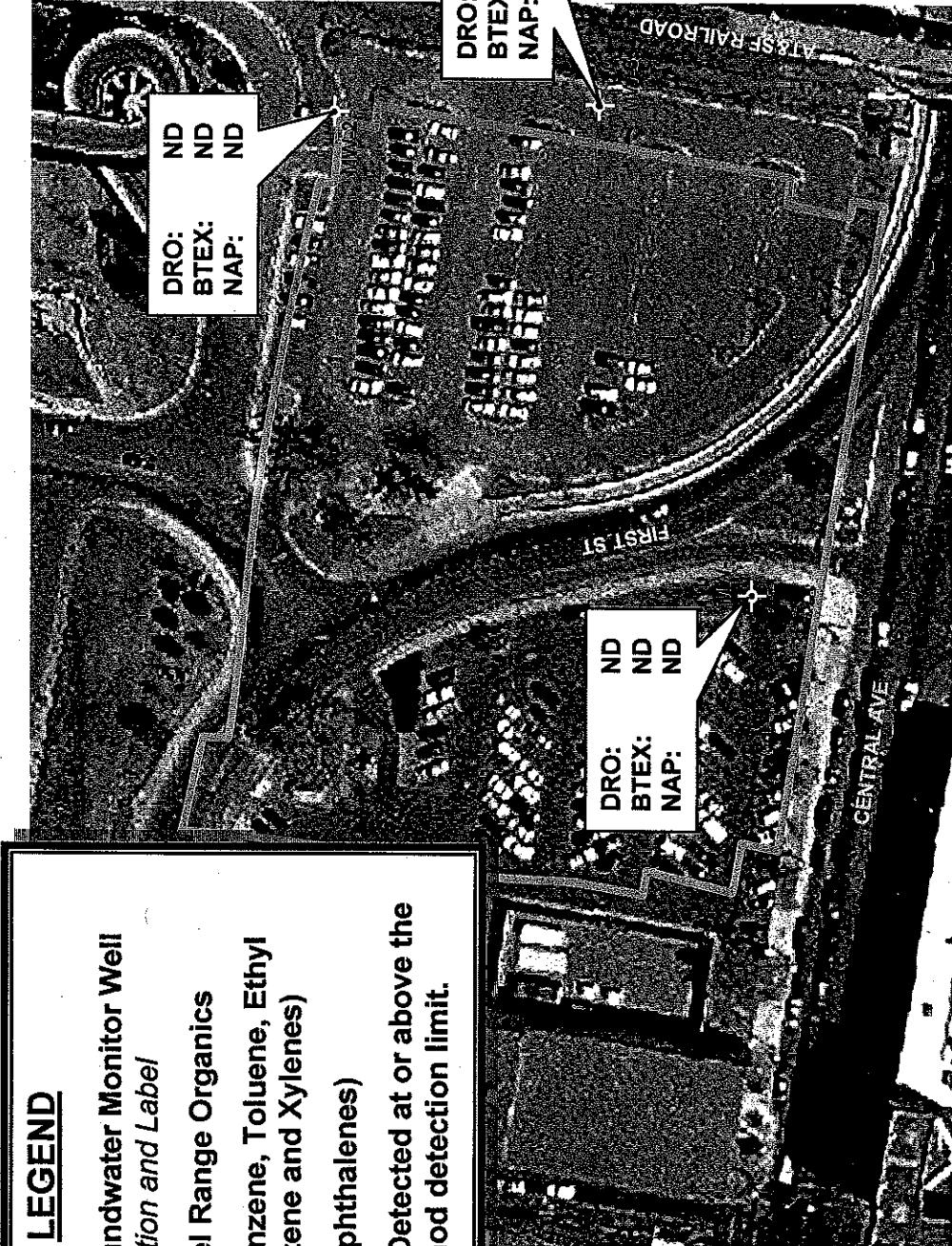
**amec**

Groundwater Contour Map

Figure 9

Albuquerque Arena Project

August 2004



## LEGEND

MW-2 - Groundwater Monitor Well  
*Location and Label*

DRO - Diesel Range Organics

BTEX -  $\Sigma$ (Benzene, Toluene, Ethyl Benzene and Xylenes)

NAP -  $\Sigma$ (Naphthalenes)

ND - Not Detected at or above the method detection limit.

0' 50' 100'  
APPROX. SCALE  
1 inch = 100 feet

Phase II  
ESA

Groundwater Contamination Results Summary Map

Figure 10

**amec**

Albuquerque Arena Project

August 2004



## COVER LETTER

August 16, 2004

Peter A. Guerra  
AMEC  
8519 Jefferson Street, NE  
Albuquerque, NM 87113  
TEL: (505) 821-1801  
FAX (505) 821-7371

RE: ABQ Arena

Order No.: 0407206

Dear Peter A. Guerra:

Hall Environmental Analysis Laboratory received 19 samples on 7/20/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "Nancy McDuffie".

Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT: AMEC  
Project: ABQ Arena  
Lab Order: 0407206

**CASE NARRATIVE**

Method 8015B

SAMPLES 0407206-02A,-04A,-08A, -09A and -15A : Surrogate not recovered due to dilution.

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-1-8.0'-8.5'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 8:24:00 AM
Lab ID:	0407206-01A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	74	10		mg/Kg	1	8/10/2004 8:26:21 PM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2004 8:26:21 PM	
Surr: DNOP	102	60-124		%REC	1	8/10/2004 8:26:21 PM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2004 2:27:33 PM	Analyst: NSB
Surr: BFB	103	74-118		%REC	1	7/23/2004 2:27:33 PM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-1-14.0'-14.5'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 8:51:00 AM
Lab ID:	0407206-02A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	2500	100		mg/Kg	10	Analyst: JMP 8/12/2004 4:48:25 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/12/2004 4:48:25 AM
Surr: DNOP	0	60-124	S	%REC	10	8/12/2004 4:48:25 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	Analyst: NSB 7/23/2004 2:58:51 PM
Surr: BFB	103	74-118		%REC	10	7/23/2004 2:58:51 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	*	- Value exceeds Maximum Contaminant Level

**Hall Environmental Analysis Laboratory**

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-1-20.0'-21.0'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 9:09:00 AM
Lab ID:	0407206-03A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	290	10		mg/Kg	1	8/10/2004 9:27:36 PM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2004 9:27:36 PM	
Sur: DNOP	102	60-124		%REC	1	8/10/2004 9:27:36 PM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2004 3:49:59 PM	Analyst: NSB
Sur: BFB	94.2	74-118		%REC	1	7/24/2004 3:49:59 PM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-1-28.0-32.0'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 9:24:00 AM
Lab ID:	0407206-04A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	4200	100		mg/Kg	10	Analyst: JMP 8/12/2004 5:18:20 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/12/2004 5:18:20 AM
Surr: DNOP	0	60-124	S	%REC	10	8/12/2004 5:18:20 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	Analyst: NSB 7/23/2004 4:01:29 PM
Surr: BFB	115	74-118		%REC	10	7/23/2004 4:01:29 PM

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-05A

**Client Sample ID:** P-1COMP4'-30'  
**Tag Number:**  
**Collection Date:** 7/19/2004 9:33:00 AM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	0.25	mg/Kg	5	7/23/2004	Analyst: BDH
Toluene	ND	0.25	mg/Kg	5	7/23/2004	
Ethylbenzene	ND	0.25	mg/Kg	5	7/23/2004	
Methyl tert-butyl ether (MTBE)	ND	0.25	mg/Kg	5	7/23/2004	
1,2,4-Trimethylbenzene	ND	0.25	mg/Kg	5	7/23/2004	
1,3,5-Trimethylbenzene	ND	0.25	mg/Kg	5	7/23/2004	
1,2-Dichloroethane (EDC)	ND	0.25	mg/Kg	5	7/23/2004	
1,2-Dibromoethane (EDB)	ND	0.25	mg/Kg	5	7/23/2004	
Naphthalene	ND	0.50	mg/Kg	5	7/23/2004	
1-Methylnaphthalene	6.9	1.0	mg/Kg	5	7/23/2004	
2-Methylnaphthalene	1.9	1.0	mg/Kg	5	7/23/2004	
Acetone	ND	2.5	mg/Kg	5	7/23/2004	
Bromobenzene	ND	0.25	mg/Kg	5	7/23/2004	
Bromoform	ND	0.25	mg/Kg	5	7/23/2004	
Bromochloromethane	ND	0.25	mg/Kg	5	7/23/2004	
Bromodichloromethane	ND	0.25	mg/Kg	5	7/23/2004	
Bromoform	ND	0.25	mg/Kg	5	7/23/2004	
Bromomethane	ND	0.50	mg/Kg	5	7/23/2004	
2-Butanone	ND	2.5	mg/Kg	5	7/23/2004	
Carbon disulfide	ND	2.5	mg/Kg	5	7/23/2004	
Carbon tetrachloride	ND	0.25	mg/Kg	5	7/23/2004	
Chlorobenzene	ND	0.25	mg/Kg	5	7/23/2004	
Chloroethane	ND	0.50	mg/Kg	5	7/23/2004	
Chloroform	ND	0.25	mg/Kg	5	7/23/2004	
Chloromethane	ND	0.25	mg/Kg	5	7/23/2004	
2-Chlorotoluène	ND	0.25	mg/Kg	5	7/23/2004	
4-Chlorotoluene	ND	0.25	mg/Kg	5	7/23/2004	
cis-1,2-DCE	ND	0.25	mg/Kg	5	7/23/2004	
cis-1,3-Dichloropropene	ND	0.25	mg/Kg	5	7/23/2004	
1,2-Dibromo-3-chloropropane	ND	0.50	mg/Kg	5	7/23/2004	
Dibromochloromethane	ND	0.25	mg/Kg	5	7/23/2004	
Dibromomethane	ND	0.50	mg/Kg	5	7/23/2004	
1,2-Dichlorobenzene	ND	0.25	mg/Kg	5	7/23/2004	
1,3-Dichlorobenzene	ND	0.25	mg/Kg	5	7/23/2004	
1,4-Dichlorobenzene	ND	0.25	mg/Kg	5	7/23/2004	
Dichlorodifluoromethane	ND	0.25	mg/Kg	5	7/23/2004	
1,1-Dichloroethane	ND	0.25	mg/Kg	5	7/23/2004	
1,1-Dichloroethene	ND	0.25	mg/Kg	5	7/23/2004	
1,2-Dichloropropane	ND	0.25	mg/Kg	5	7/23/2004	
1,3-Dichloropropane	ND	0.25	mg/Kg	5	7/23/2004	
2,2-Dichloropropane	ND	0.25	mg/Kg	5	7/23/2004	

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-05A

**Client Sample ID:** P-1COMP4'-30'  
**Tag Number:**  
**Collection Date:** 7/19/2004 9:33:00 AM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
Hexachlorobutadiene	ND	0.25		mg/Kg	5	7/23/2004
2-Hexanone	ND	2.5		mg/Kg	5	7/23/2004
Isopropylbenzene	ND	0.25		mg/Kg	5	7/23/2004
4-Isopropyltoluene	ND	0.25		mg/Kg	5	7/23/2004
4-Methyl-2-pentanone	ND	2.5		mg/Kg	5	7/23/2004
Methylene chloride	ND	0.75		mg/Kg	5	7/23/2004
n-Butylbenzene	0.41	0.25		mg/Kg	5	7/23/2004
n-Propylbenzene	ND	0.25		mg/Kg	5	7/23/2004
sec-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
Styrene	ND	0.25		mg/Kg	5	7/23/2004
tert-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	7/23/2004
trans-1,2-DCE	ND	0.25		mg/Kg	5	7/23/2004
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	7/23/2004
Trichlorofluoromethane	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	7/23/2004
Vinyl chloride	ND	0.25		mg/Kg	5	7/26/2004
Xylenes, Total	ND	0.25		mg/Kg	5	7/23/2004
Surr: 1,2-Dichloroethane-d4	98.9	68.4-123		%REC	5	7/23/2004
Surr: 4-Bromofluorobenzene	98.2	70-119		%REC	5	7/23/2004
Surr: Dibromofluoromethane	102	76.8-123		%REC	5	7/23/2004
Surr: Toluene-d8	101	75.9-118		%REC	5	7/23/2004

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC                    **Client Sample ID:** P-1COMP4'-30'  
**Lab Order:** 0407206                **Tag Number:**  
**Project:** ABQ Arena                **Collection Date:** 7/19/2004 9:33:00 AM  
**Lab ID:** 0407206-05B              **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8270D: SEMIVOLATILES</b>						
Acenaphthene	ND	0.20		mg/Kg	1	8/3/2004
Acenaphthylene	ND	0.20		mg/Kg	1	8/3/2004
Aniline	ND	0.20		mg/Kg	1	8/3/2004
Anthracene	ND	0.20		mg/Kg	1	8/3/2004
Azobenzene	ND	0.20		mg/Kg	1	8/3/2004
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Benzidine	ND	0.20		mg/Kg	1	8/3/2004
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/3/2004
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzoic acid	ND	0.50		mg/Kg	1	8/3/2004
Benzyl alcohol	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/3/2004
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/3/2004
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Carbazole	ND	0.20		mg/Kg	1	8/3/2004
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chloroaniline	ND	0.20		mg/Kg	1	8/3/2004
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Chlorophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/3/2004
Chrysene	ND	0.20		mg/Kg	1	8/3/2004
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/3/2004
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Dibenzofuran	0.42	0.20		mg/Kg	1	8/3/2004
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/3/2004
Diethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/3/2004
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/3/2004
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/3/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-05B

**Client Sample ID:** P-1COMP4'-30'  
**Tag Number:**  
**Collection Date:** 7/19/2004 9:33:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
Fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Fluorene	0.70	0.20		mg/Kg	1	8/3/2004
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/3/2004
Hexachloroethane	ND	0.20		mg/Kg	1	8/3/2004
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Isophorone	ND	0.20		mg/Kg	1	8/3/2004
2-Methylnaphthalene	1.3	0.20		mg/Kg	1	8/3/2004
2-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/3/2004
Naphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
3-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
4-Nitroaniline	ND	0.25		mg/Kg	1	8/3/2004
Nitrobenzene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
Pentachlorophenol	ND	0.50		mg/Kg	1	8/3/2004
Phenanthrene	1.2	0.20		mg/Kg	1	8/3/2004
Phenol	ND	0.20		mg/Kg	1	8/3/2004
Pyrene	ND	0.20		mg/Kg	1	8/3/2004
Pyridine	ND	0.50		mg/Kg	1	8/3/2004
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
Surr: 2,4,6-Tribromophenol	63.8	26-156		%REC	1	8/3/2004
Surr: 2-Fluorobiphenyl	86.6	23.6-111		%REC	1	8/3/2004
Surr: 2-Fluorophenol	69.1	21.5-107		%REC	1	8/3/2004
Surr: 4-Terphenyl-d14	68.7	30-220		%REC	1	8/3/2004
Surr: Nitrobenzene-d5	89.5	25.3-115		%REC	1	8/3/2004
Surr: Phenol-d6	81.0	25.2-115		%REC	1	8/3/2004

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-2-8'-9'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 10:18:00 AM
Lab ID:	0407206-06A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	250	10		mg/Kg	1	Analyst: JMP 8/10/2004 10:28:25 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2004 10:28:25 PM
Surr: DNOP	112	60-124		%REC	1	8/10/2004 10:28:25 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: NSB 7/23/2004 5:03:33 PM
Surr: BFB	95.0	74-118		%REC	1	7/23/2004 5:03:33 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	*	- Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-2-14'-15'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 10:28:00 AM
Lab ID:	0407206-07A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	190	10		mg/Kg	1	8/10/2004 10:58:34 PM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/10/2004 10:58:34 PM	
Surr: DNOP	106	60-124		%REC	1	8/10/2004 10:58:34 PM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2004 5:34:32 PM	Analyst: NSB
Surr: BFB	102	74-118		%REC	1	7/23/2004 5:34:32 PM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

<b>CLIENT:</b>	AMEC	<b>Client Sample ID:</b>	P-2-23'-24'
<b>Lab Order:</b>	0407206	<b>Tag Number:</b>	
<b>Project:</b>	ABQ Arena	<b>Collection Date:</b>	7/19/2004 10:43:00 AM
<b>Lab ID:</b>	0407206-08A	<b>Matrix:</b>	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	8400	100		mg/Kg	10	8/12/2004 6:49:31 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/12/2004 6:49:31 AM
Surr: DNOP	0	60-124	S	%REC	10	8/12/2004 6:49:31 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/23/2004 6:05:29 PM
Surr: BFB	102	74-118		%REC	10	7/23/2004 6:05:29 PM

**Qualifiers:** ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT: AMEC  
Lab Order: 0407206  
Project: ABQ Arena  
Lab ID: 0407206-09A

Client Sample ID: P-2-30'-31'  
Tag Number:  
Collection Date: 7/19/2004 10:56:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	1000	100		mg/Kg	10	8/12/2004 4:01:55 PM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/12/2004 4:01:55 PM	
Surrogate: DNOP	164	60-124	S	%REC	10	8/12/2004 4:01:55 PM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/23/2004 7:38:02 PM	Analyst: NSB
Surrogate: BFB	101	74-118		%REC	10	7/23/2004 7:38:02 PM	

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\* - Value exceeds Maximum Contaminant Level

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R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-10A

**Client Sample ID:** P-2COMP4'-30'  
**Tag Number:**  
**Collection Date:** 7/19/2004 11:04:00 AM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	0.25		mg/Kg	5	7/23/2004
Toluene	ND	0.25		mg/Kg	5	7/23/2004
Ethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	7/23/2004
1,2,4-Trimethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,3,5-Trimethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dichloroethane (EDC)	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dibromoethane (EDB)	ND	0.25		mg/Kg	5	7/23/2004
Naphthalene	ND	0.50		mg/Kg	5	7/23/2004
1-Methylnaphthalene	4.3	1.0		mg/Kg	5	7/23/2004
2-Methylnaphthalene	3.2	1.0		mg/Kg	5	7/23/2004
Acetone	ND	2.5		mg/Kg	5	7/23/2004
Bromobenzene	ND	0.25		mg/Kg	5	7/23/2004
Bromochloromethane	ND	0.25		mg/Kg	5	7/23/2004
Bromodichloromethane	ND	0.25		mg/Kg	5	7/23/2004
Bromoform	ND	0.25		mg/Kg	5	7/23/2004
Bromomethane	ND	0.50		mg/Kg	5	7/23/2004
2-Butanone	ND	2.5		mg/Kg	5	7/23/2004
Carbon disulfide	ND	2.5		mg/Kg	5	7/23/2004
Carbon tetrachloride	ND	0.25		mg/Kg	5	7/23/2004
Chlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
Chloroethane	ND	0.50		mg/Kg	5	7/23/2004
Chloroform	ND	0.25		mg/Kg	5	7/23/2004
Chloromethane	ND	0.25		mg/Kg	5	7/23/2004
2-Chlorotoluene	ND	0.25		mg/Kg	5	7/23/2004
4-Chlorotoluene	ND	0.25		mg/Kg	5	7/23/2004
cis-1,2-DCE	ND	0.25		mg/Kg	5	7/23/2004
cis-1,3-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dibromo-3-chloropropane	ND	0.50		mg/Kg	5	7/23/2004
Dibromochloromethane	ND	0.25		mg/Kg	5	7/23/2004
Dibromomethane	ND	0.50		mg/Kg	5	7/23/2004
1,2-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,3-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,4-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
Dichlorodifluoromethane	ND	0.25		mg/Kg	5	7/23/2004
1,1-Dichloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1-Dichloroethene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004
1,3-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004
2,2-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004

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\* - Value exceeds Maximum Contaminant Level

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R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT: AMEC  
 Lab Order: 0407206  
 Project: ABQ Arena  
 Lab ID: 0407206-10A

Client Sample ID: P-2COMP4'-30'  
 Tag Number:  
 Collection Date: 7/19/2004 11:04:00 AM  
 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
Hexachlorobutadiene	ND	0.25		mg/Kg	5	7/23/2004
2-Hexanone	ND	2.5		mg/Kg	5	7/23/2004
Isopropylbenzene	ND	0.25		mg/Kg	5	7/23/2004
4-Isopropyltoluene	ND	0.25		mg/Kg	5	7/23/2004
4-Methyl-2-pentanone	ND	2.5		mg/Kg	5	7/23/2004
Methylene chloride	ND	0.75		mg/Kg	5	7/23/2004
n-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
n-Propylbenzene	ND	0.25		mg/Kg	5	7/23/2004
sec-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
Styrene	ND	0.25		mg/Kg	5	7/23/2004
tert-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	7/23/2004
trans-1,2-DCE	ND	0.25		mg/Kg	5	7/23/2004
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	7/23/2004
Trichlorofluoromethane	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	7/23/2004
Vinyl chloride	ND	0.25		mg/Kg	5	7/26/2004
Xylenes, Total	ND	0.25		mg/Kg	5	7/23/2004
Surr: 1,2-Dichloroethane-d4	106	68.4-123		%REC	5	7/23/2004
Surr: 4-Bromofluorobenzene	100	70-119		%REC	5	7/23/2004
Surr: Dibromofluoromethane	105	76.8-123		%REC	5	7/23/2004
Surr: Toluene-d8	107	75.9-118		%REC	5	7/23/2004

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 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-10B

**Client Sample ID:** P-2COMP4'-30'  
**Tag Number:**  
**Collection Date:** 7/19/2004 11:04:00 AM  
**Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8270D: SEMIVOLATILES</b>						
Acenaphthene	ND	0.20		mg/Kg	1	8/3/2004
Acenaphthylene	ND	0.20		mg/Kg	1	8/3/2004
Aniline	ND	0.20		mg/Kg	1	8/3/2004
Anthracene	ND	0.20		mg/Kg	1	8/3/2004
Azobenzene	ND	0.20		mg/Kg	1	8/3/2004
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Benzidine	ND	0.20		mg/Kg	1	8/3/2004
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/3/2004
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzoic acid	ND	0.50		mg/Kg	1	8/3/2004
Benzyl alcohol	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/3/2004
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/3/2004
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Carbazole	ND	0.20		mg/Kg	1	8/3/2004
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chloroaniline	ND	0.20		mg/Kg	1	8/3/2004
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Chlorophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/3/2004
Chrysene	ND	0.20		mg/Kg	1	8/3/2004
Di-n-butyl phthalate	ND	0.25		mg/Kg	1	8/3/2004
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Dibenzofuran	ND	0.20		mg/Kg	1	8/3/2004
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/3/2004
Diethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/3/2004
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/3/2004
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/3/2004

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\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC                    **Client Sample ID:** P-2COMP4'-30'  
**Lab Order:** 0407206                **Tag Number:**  
**Project:** ABQ Arena              **Collection Date:** 7/19/2004 11:04:00 AM  
**Lab ID:** 0407206-10B             **Matrix:** SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
Fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Fluorene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/3/2004
Hexachloroethane	ND	0.20		mg/Kg	1	8/3/2004
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Isophorone	ND	0.20		mg/Kg	1	8/3/2004
2-Methylnaphthalene	1.2	0.20		mg/Kg	1	8/3/2004
2-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/3/2004
Naphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
3-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
4-Nitroaniline	ND	0.25		mg/Kg	1	8/3/2004
Nitrobenzene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
Pentachlorophenol	ND	0.50		mg/Kg	1	8/3/2004
Phenanthrene	0.22	0.20		mg/Kg	1	8/3/2004
Phenol	ND	0.20		mg/Kg	1	8/3/2004
Pyrene	ND	0.20		mg/Kg	1	8/3/2004
Pyridine	ND	0.50		mg/Kg	1	8/3/2004
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
Surr: 2,4,6-Tribromophenol	86.1	26-156		%REC	1	8/3/2004
Surr: 2-Fluorobiphenyl	82.1	23.6-111		%REC	1	8/3/2004
Surr: 2-Fluorophenol	71.8	21.5-107		%REC	1	8/3/2004
Surr: 4-Terphenyl-d14	77.1	30-220		%REC	1	8/3/2004
Surr: Nitrobenzene-d5	73.6	25.3-115		%REC	1	8/3/2004
Surr: Phenol-d6	83.1	25.2-115		%REC	1	8/3/2004

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J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-3-8'-9'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 11:33:00 AM
Lab ID:	0407206-11A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	110	10		mg/Kg	1	8/12/2004 8:19:29 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 8:19:29 AM	
Surr: DNOP	104	60-124		%REC	1	8/12/2004 8:19:29 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/23/2004 8:39:37 PM	Analyst: NSB
Surr: BFB	98.6	74-118		%REC	1	7/23/2004 8:39:37 PM	

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-3-27-28
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 12:03:00 PM
Lab ID:	0407206-12A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	280	10		mg/Kg	1	8/12/2004 8:49:43 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 8:49:43 AM	
Sur: DNOP	108	60-124		%REC	1	8/12/2004 8:49:43 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/23/2004 9:10:24 PM	Analyst: NSB
Sur: BFB	100	74-118		%REC	10	7/23/2004 9:10:24 PM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-3-30'-31'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 12:20:00 PM
Lab ID:	0407206-13A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	480	10		mg/Kg	1	8/12/2004 9:20:59 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 9:20:59 AM
Surr: DNOP	106	60-124		%REC	1	8/12/2004 9:20:59 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/23/2004 9:41:16 PM
Surr: BFB	101	74-118		%REC	10	7/23/2004 9:41:16 PM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407206  
**Project:** ABQ Arena  
**Lab ID:** 0407206-14A

**Client Sample ID:** P-3COMP  
**Tag Number:**  
**Collection Date:** 7/19/2004 12:32:00 PM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	0.25		mg/Kg	5	7/23/2004
Toluene	ND	0.25		mg/Kg	5	7/23/2004
Ethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	7/23/2004
1,2,4-Trimethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,3,5-Trimethylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dichloroethane (EDC)	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dibromoethane (EDB)	ND	0.25		mg/Kg	5	7/23/2004
Naphthalene	ND	0.50		mg/Kg	5	7/23/2004
1-Methylnaphthalene	1.1	1.0		mg/Kg	5	7/23/2004
2-Methylnaphthalene	ND	1.0		mg/Kg	5	7/23/2004
Acetone	ND	2.5		mg/Kg	5	7/23/2004
Bromobenzene	ND	0.25		mg/Kg	5	7/23/2004
Bromochloromethane	ND	0.25		mg/Kg	5	7/23/2004
Bromodichloromethane	ND	0.25		mg/Kg	5	7/23/2004
Bromoform	ND	0.25		mg/Kg	5	7/23/2004
Bromomethane	ND	0.50		mg/Kg	5	7/23/2004
2-Butanone	ND	2.5		mg/Kg	5	7/23/2004
Carbon disulfide	ND	2.5		mg/Kg	5	7/23/2004
Carbon tetrachloride	ND	0.25		mg/Kg	5	7/23/2004
Chlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
Chloroethane	ND	0.50		mg/Kg	5	7/23/2004
Chloroform	ND	0.25		mg/Kg	5	7/23/2004
Chloromethane	ND	0.25		mg/Kg	5	7/23/2004
2-Chlorotoluene	ND	0.25		mg/Kg	5	7/23/2004
4-Chlorotoluene	ND	0.25		mg/Kg	5	7/23/2004
cis-1,2-DCE	ND	0.25		mg/Kg	5	7/23/2004
cis-1,3-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dibromo-3-chloropropane	ND	0.50		mg/Kg	5	7/23/2004
Dibromochloromethane	ND	0.25		mg/Kg	5	7/23/2004
Dibromomethane	ND	0.50		mg/Kg	5	7/23/2004
1,2-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,3-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,4-Dichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
Dichlorodifluoromethane	ND	0.25		mg/Kg	5	7/23/2004
1,1-Dichloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1-Dichloroethene	ND	0.25		mg/Kg	5	7/23/2004
1,2-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004
1,3-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004
2,2-Dichloropropane	ND	0.25		mg/Kg	5	7/23/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT: AMEC  
 Lab Order: 0407206  
 Project: ABQ Arena  
 Lab ID: 0407206-14A

Client Sample ID: P-3COMP  
 Tag Number:  
 Collection Date: 7/19/2004 12:32:00 PM  
 Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,1-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
Hexachlorobutadiene	ND	0.25		mg/Kg	5	7/23/2004
2-Hexanone	ND	2.5		mg/Kg	5	7/23/2004
Isopropylbenzene	ND	0.25		mg/Kg	5	7/23/2004
4-Isopropyltoluene	ND	0.25		mg/Kg	5	7/23/2004
4-Methyl-2-pentanone	ND	2.5		mg/Kg	5	7/23/2004
Methylene chloride	ND	0.75		mg/Kg	5	7/23/2004
n-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
n-Propylbenzene	ND	0.25		mg/Kg	5	7/23/2004
sèc-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
Styrene	ND	0.25		mg/Kg	5	7/23/2004
tert-Butylbenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	7/23/2004
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	7/23/2004
trans-1,2-DCE	ND	0.25		mg/Kg	5	7/23/2004
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	7/23/2004
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	7/23/2004
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	7/23/2004
Trichlorofluoromethane	ND	0.25		mg/Kg	5	7/23/2004
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	7/23/2004
Vinyl chloride	ND	0.25		mg/Kg	5	7/26/2004
Xylenes, Total	ND	0.25		mg/Kg	5	7/23/2004
Surr: 1,2-Dichloroethane-d4	101	68.4-123	%REC		5	7/23/2004
Surr: 4-Bromofluorobenzene	97.2	70-119	%REC		5	7/23/2004
Surr: Dibromofluoromethane	102	76.8-123	%REC		5	7/23/2004
Surr: Toluene-d8	99.4	75.9-118	%REC		5	7/23/2004

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

<b>CLIENT:</b>	AMEC	<b>Client Sample ID:</b>	P-3COMP
<b>Lab Order:</b>	0407206	<b>Tag Number:</b>	
<b>Project:</b>	ABQ Arena	<b>Collection Date:</b>	7/19/2004 12:32:00 PM
<b>Lab ID:</b>	0407206-14B	<b>Matrix:</b>	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8270D: SEMIVOLATILES</b>						
Acenaphthene	ND	0.20		mg/Kg	1	8/3/2004
Acenaphthylene	ND	0.20		mg/Kg	1	8/3/2004
Aniline	ND	0.20		mg/Kg	1	8/3/2004
Anthracene	ND	0.20		mg/Kg	1	8/3/2004
Azobenzene	ND	0.20		mg/Kg	1	8/3/2004
Benz(a)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Benzidine	ND	0.20		mg/Kg	1	8/3/2004
Benzo(a)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzo(g,h,i)perylene	ND	0.30		mg/Kg	1	8/3/2004
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Benzoic acid	ND	0.50		mg/Kg	1	8/3/2004
Benzyl alcohol	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-chloroethyl)ether	ND	0.25		mg/Kg	1	8/3/2004
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	8/3/2004
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	8/3/2004
4-Bromophenyl phenyl ether	ND	0.25		mg/Kg	1	8/3/2004
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Carbazole	ND	0.20		mg/Kg	1	8/3/2004
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chloroaniline	ND	0.20		mg/Kg	1	8/3/2004
2-Chloronaphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Chlorophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	8/3/2004
Chrysene	ND	0.20		mg/Kg	1	8/3/2004
Di-n-butyl phthalate	0.29	0.25		mg/Kg	1	8/3/2004
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dibenz(a,h)anthracene	ND	0.25		mg/Kg	1	8/3/2004
Dibenzofuran	ND	0.20		mg/Kg	1	8/3/2004
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	8/3/2004
Diethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
Dimethyl phthalate	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	8/3/2004
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	8/3/2004
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	8/3/2004

Qualifiers: ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

B - Analyte detected in the associated Method Blank

\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT: AMEC  
 Lab Order: 0407206  
 Project: ABQ Arena  
 Lab ID: 0407206-14B

Client Sample ID: P-3COMP  
 Tag Number:  
 Collection Date: 7/19/2004 12:32:00 PM  
 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	8/3/2004
Fluoranthene	ND	0.20		mg/Kg	1	8/3/2004
Fluorene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorobutadiene	ND	0.20		mg/Kg	1	8/3/2004
Hexachlorocyclopentadiene	ND	0.25		mg/Kg	1	8/3/2004
Hexachloroethane	ND	0.20		mg/Kg	1	8/3/2004
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	8/3/2004
Isophorone	ND	0.20		mg/Kg	1	8/3/2004
2-Methylnaphthalene	0.43	0.20		mg/Kg	1	8/3/2004
2-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
3+4-Methylphenol	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	8/3/2004
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	8/3/2004
Naphthalene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
3-Nitroaniline	ND	0.50		mg/Kg	1	8/3/2004
4-Nitroaniline	ND	0.25		mg/Kg	1	8/3/2004
Nitrobenzene	ND	0.20		mg/Kg	1	8/3/2004
2-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
4-Nitrophenol	ND	0.20		mg/Kg	1	8/3/2004
Pentachlorophenol	ND	0.50		mg/Kg	1	8/3/2004
Phenanthrene	ND	0.20		mg/Kg	1	8/3/2004
Phenol	ND	0.20		mg/Kg	1	8/3/2004
Pyrene	ND	0.20		mg/Kg	1	8/3/2004
Pyridine	ND	0.50		mg/Kg	1	8/3/2004
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	8/3/2004
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	8/3/2004
Surr: 2,4,6-Tribromophenol	76.0	26-156		%REC	1	8/3/2004
Surr: 2-Fluorobiphenyl	72.3	23.6-111		%REC	1	8/3/2004
Surr: 2-Fluorophenol	61.2	21.5-107		%REC	1	8/3/2004
Surr: 4-Terphenyl-d14	79.4	30-220		%REC	1	8/3/2004
Surr: Nitrobenzene-d5	65.8	25.3-115		%REC	1	8/3/2004
Surr: Phenol-d6	71.9	25.2-115		%REC	1	8/3/2004

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 B - Analyte detected in the associated Method Blank  
 \* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-5-29'-30'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 2:58:00 PM
Lab ID:	0407206-15A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	3900	100		mg/Kg	10	Analyst: JMP 8/12/2004 7:19:23 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/12/2004 7:19:23 AM
Surr: DNOP	0	60-124	S	%REC	10	8/12/2004 7:19:23 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	Analyst: NSB 7/23/2004 11:44:14 PM
Surr: BFB	95.8	74-118		%REC	20	7/23/2004 11:44:14 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-6-28'-29'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/19/2004 4:20:00 PM
Lab ID:	0407206-16A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	850	10		mg/Kg	1	8/12/2004 9:51:27 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 9:51:27 AM	
Surr: DNOP	104	60-124		%REC	1	8/12/2004 9:51:27 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/24/2004 12:14:55 AM	Analyst: NSB
Surr: BFB	93.5	74-118		%REC	10	7/24/2004 12:14:55 AM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-7-31'-32'
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/20/2004 7:46:00 AM
Lab ID:	0407206-17A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	Analyst: JMP 8/12/2004 10:21:52 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 10:21:52 AM
Surr: DNOP	98.7	60-124	%REC		1	8/12/2004 10:21:52 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: NSB 7/23/2004 12:53:35 PM
Surr: BFB	95.7	74-118	%REC		1	7/23/2004 12:53:35 PM

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-8-21-22
Lab Order:	0407206	Tag Number:	
Project:	ABQ Arena	Collection Date:	7/20/2004 8:54:00 AM
Lab ID:	0407206-18A	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/12/2004 10:52:25 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 10:52:25 AM	
Surr: DNOP	99.0	60-124		%REC	1	8/12/2004 10:52:25 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/24/2004 12:45:40 AM	Analyst: NSB
Surr: BFB	90.5	74-118		%REC	1	7/24/2004 12:45:40 AM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**CLIENT:** AMEC                   **Client Sample ID:** P-8-27-28  
**Lab Order:** 0407206               **Tag Number:**  
**Project:** ABQ Arena              **Collection Date:** 7/20/2004 9:06:00 AM  
**Lab ID:** 0407206-19A              **Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	Analyst: JMP 8/12/2004 11:23:06 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/12/2004 11:23:06 AM
Surr: DNOP	102	60-124		%REC	1	8/12/2004 11:23:06 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: NSB 7/24/2004 1:16:18 AM
Surr: BFB	91.1	74-118		%REC	1	7/24/2004 1:16:18 AM

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

## Hall Environmental Analysis Laboratory

Date: 16-Aug-04

## QC SUMMARY REPORT

Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

Sample ID: MB-6192	Batch ID: 6192	Test Code: SW8015	Units: mg/Kg	Analysis Date: 8/10/2004 7:24:35 PM			Prep Date: 7/26/2004		
Client ID:		Run ID: FID(17A) 2_040809A		SeqNo:	295735				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Diesel Range Organics (DRO)	ND	10							
Motor Oil Range Organics (MRO)	ND	50							
Surf: DNOP	10.16	0	10	0	102	60	124	0	0

Sample ID: MB-6151	Batch ID: 6151	Test Code: SW8015	Units: mg/Kg	Analysis Date: 7/23/2004 11:51:55 AM			Prep Date: 7/20/2004		
Client ID:		Run ID: P1DFID_040723B		SeqNo:	290160				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD
Gasoline Range Organics (GRO)	ND	5							
Surf: BFB	949.4	0	1000	0	94.9	74	118	0	0

**Qualifiers:** ND - Not Detected at the Reporting Limit  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
J - Analyte detected below quantitation limits  
I - Analyte detected in the associated Method Blank

# OC SUMMARY REPORT

Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

Sample ID: 5ml rb	Batch ID: R12539	Test Code: SW8260B	Units: mg/kg	Analysis Date: 7/23/2004			Prep Date:				
Client ID:		Run ID: VAL_040723A		SeqNo:	290248		LowLimit	HighLimit	RPD Ref Val		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC			%RPD	RPD Limit	Qual
Benzene		ND	0.05								
Toluene		ND	0.05								
Ethylbenzene		ND	0.05								
Methyl tert-butyl ether (MTBE)		ND	0.05								
1,2,4-Trimethylbenzene		ND	0.05								
1,3,5-Trimethylbenzene		ND	0.05								
1,2-Dichloroethane (EDC)		ND	0.05								
1,2-Dibromoethane (EDB)		ND	0.05								
Naphthalene		ND	0.1								
1-Methylnaphthalene		ND	0.2								
2-Methylnaphthalene		ND	0.2								
Acetone		ND	0.5								
Bromobenzene		ND	0.05								
Bromoform		ND	0.05								
Bromomethane		ND	0.05								
2-Butanone		0.1129	0.5								
Carbon disulfide		ND	0.5								
Carbon tetrachloride		ND	0.05								
Chlorobenzene		ND	0.05								
Chloroethane		ND	0.1								
Chloroform		ND	0.05								
Chloromethane		ND	0.05								
2-Chlorotoluene		ND	0.05								
4-Chlorotoluene		ND	0.05								
cis-1,2-DCE		ND	0.05								
cis-1,3-Dichloropropene		ND	0.05								

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

		S - Spike Recovery outside accepted recovery limits	R - RPD outside accepted recovery limits
1,2-Dibromo-3-chloropropane	ND	0.1	
Dibromochloromethane	ND	0.05	
Dibromomethane	ND	0.1	
1,2-Dichlorobenzene	ND	0.05	
1,3-Dichlorobenzene	ND	0.05	
1,4-Dichlorobenzene	ND	0.05	
Dichlороfluoromethane	ND	0.05	
1,1-Dichloroethane	ND	0.05	
1,1-Dichloroethene	ND	0.05	
1,2-Dichloropropane	ND	0.05	
1,3-Dichloropropane	ND	0.05	
2,2-Dichloropropane	ND	0.05	
1,1-Dichloropropene	ND	0.05	
Hexachlorobutadiene	ND	0.05	
2-Hexanone	ND	0.5	
Isopropylbenzene	ND	0.05	
4-Isopropyltoluene	ND	0.05	
4-Methyl-2-pentanone	ND	0.5	
Methylene chloride	ND	0.15	
n-Butylbenzene	ND	0.05	
n-Propylbenzene	ND	0.05	
sec-Butylbenzene	ND	0.05	
Styrene	ND	0.05	
tert-Butylbenzene	ND	0.05	
1,1,1,2-Tetrachloroethane	ND	0.05	
1,1,2,2-Tetrachloroethane	ND	0.05	
Tetrachloroethene (PCE)	ND	0.05	
trans-1,2-DCE	ND	0.05	
trans-1,3-Dichloropropene	ND	0.05	
1,2,3-Trichlorobenzene	ND	0.05	
1,2,4-Trichlorobenzene	ND	0.05	
1,1,1-Trichloroethane	ND	0.05	
1,1,2-Trichloroethane	ND	0.05	

Qualifiers:

ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# OC SUMMARY REPORT

Method Blank

CLIENT:	AMEC
Work Order:	0407206
Project:	ABQ Arena
Trichloroethene (TCE)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
Vinyl chloride	ND
Xylenes, Total	ND
Surr: 1,2-Dichloroethane-d4	0.4554
Surr: 4-Bromofluorobenzene	0.4701
Surr: Dibromofluoromethane	0.4895
Surr: Toluene-d8	0.489

Trichloroethene (TCE)	0.05
Trichlorofluoromethane	0.05
1,2,3-Trichloropropane	0.1
Vinyl chloride	0.05
Xylenes, Total	0.05
Surr: 1,2-Dichloroethane-d4	0.5
Surr: 4-Bromofluorobenzene	0.5
Surr: Dibromofluoromethane	0.5
Surr: Toluene-d8	0.5

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

## QC SUMMARY REPORT

Method Blank

Sample ID: mb-6174	Batch ID: 6174	Test.Code: SW8270A	Units: mg/Kg	Analysis Date: 8/3/2004			Prep Date: 7/22/2004				
Client ID:		Run ID: ELMO_040803A		SeqNo:	293353						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.2									
Acenaphthylene	ND	0.2									
Aniline	ND	0.2									
Anthracene	ND	0.2									
Azobenzene	ND	0.2									
Benz(a)anthracene	ND	0.25									
Benzidine	ND	0.2									
Benz(a)pyrene	ND	0.2									
Benz(b)fluoranthene	ND	0.2									
Benz(g,h,i)perylene	ND	0.3									
Benz(k)fluoranthene	ND	0.2									
Benzoic acid	ND	0.5									
Benzyl alcohol	ND	0.25									
Bis(2-chloroethoxy)methane	ND	0.2									
Bis(2-chloroethyl)ether	ND	0.25									
Bis(2-chloroisopropyl)ether	ND	0.2									
Bis(2-ethylhexyl)phthalate	ND	0.2									
4-Bromophenyl phenyl ether	ND	0.25									
Butyl benzyl phthalate	ND	0.2									
Carbazole	ND	0.2									
4-Chloro-3-methylphenol	ND	0.2									
4-Chloraniline	ND	0.2									
2-Chloronaphthalene	ND	0.2									
2-Chlorophenol	ND	0.2									
4-Chlorophenyl phenyl ether	ND	0.2									
Chrysene	ND	0.2									
Di-n-butyl phthalate	ND	0.25									
Di-n-octyl phthalate	ND	0.2									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

CLIENT: AMEC  
Work Order: 0407206  
Project: ABQ Arena

	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits	R - RPD outside accepted recovery limits
Dibenz(a,h)anthracene	ND	0.25	
Dibenzofuran	ND	0.2	
1,2-Dichlorobenzene	ND	0.2	
1,3-Dichlorobenzene	ND	0.2	
1,4-Dichlorobenzene	ND	0.2	
3,3'-Dichlorobenzidine	ND	0.2	
Diethyl phthalate	ND	0.2	
Dimethyl phthalate	ND	0.2	
2,4-Dichlorophenol	ND	0.2	
2,4-Dimethylphenol	ND	0.2	
4,6-Dinitro-2-methylphenol	ND	0.5	
2,4-Dinitrophenol	ND	0.5	
2,4-Dinitrotoluene	ND	0.2	
2,6-Dinitrotoluene	ND	0.2	
Fluoranthene	ND	0.2	
Fluorene	ND	0.2	
Hexachlorobenzene	ND	0.2	
Hexachlorobutadiene	ND	0.2	
Hexachlorocyclopentadiene	ND	0.25	
Indeno(1,2,3-cd)pyrene	ND	0.2	
Isophorone	ND	0.2	
2-Methylnaphthalene	ND	0.2	
2-Methylphenol	ND	0.2	
3+4-Methylphenol	ND	0.2	
N-Nitrosodi-n-propylamine	ND	0.2	
Naphthalene	ND	0.2	
2-Nitroaniline	ND	0.5	
3-Nitroaniline	ND	0.25	
4-Nitroaniline	ND	0.2	
Nitrobenzene	ND	0.2	
2-Nitrophenol	ND	0.2	

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits

6

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

## QC SUMMARY REPORT

Method Blank

4-Nitrophenol	ND	0.2					
Pentachlorophenol	ND	0.5					
Phenanthrene	ND	0.2					
Phenol	ND	0.2					
Pyrene	ND	0.2					
Pyridine	ND	0.5					
1,2,4-Trichlorobenzene	ND	0.2					
2,4,5-Trichlorophenol	ND	0.2					
2,4,6-Trichlorophenol	ND	0.2					
Surr: 2,4,6-Tribromophenol	2.453	0	3.333	0	73.6	26	156
Surr: 2-Fluorobiphenyl	1.135	0	1.67	0	67.9	23.6	0
Surr: 2-Fluorophenol	2.325	0	3.333	0	69.8	21.5	111
Surr: 4-Terphenyl-d14	1.447	0	1.67	0	86.6	30	107
Surr: Nitrobenzene-d5	1.119	0	1.67	0	67.0	25.3	120
Surr: Phenol-d6	2.606	0	3.333	0	78.2	25.2	115

36 / 42

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**QC SUMMARY REPORT**  
Laboratory Control Spike - generic

Client ID:	Project:	Sample ID:	Batch ID:	Test Code:	Units:	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
		LCS-6192	6192	SW8015	mg/Kg							
				Run ID:	FID(17A) 2_040809A							
Analyte			Result	PQL	SPK value	SPK Ref Val						
Diesel Range Organics (DRO)	Surr: DNOP		36.45	10	50	0	72.9	67.4	117	0		
			5.476	0	5	0	110	74	125	0		
Sample ID:	Client ID:	LCS-6151	Batch ID:	6151	Test Code:	SW8015	Units:	mg/Kg				
					Run ID:	PID/FID_040723B						
Analyte			Result	PQL	SPK value	SPK Ref Val						
Gasoline Range Organics (GRO)	Surr: BFB		25.1	5	25	0	100	73.8	120	0		
			1015	0	1000	0	101	74	118	0		
Sample ID:	Client ID:	GRO std 2.5ug	Batch ID:	R12536	Test Code:	SW8015	Units:	mg/Kg				
					Run ID:	PID/FID_040724A						
Analyte			Result	PQL	SPK value	SPK Ref Val						
Gasoline Range Organics (GRO)	Surr: BFB		25.71	5	25	0	103	73.8	120	0		
			1187	0	1250	0	95.0	74	118	0		

# QC SUMMARY REPORT

Laboratory Control Spike - generic

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

Sample ID: 100ng lcs	Batch ID: R12559	Test Code: SW8260B	Units: mg/Kg	Analysis Date: 7/23/2004			Prep Date:				
Client ID:		Run ID: VAL_040723A		SeqNo:	290255						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	0.7981	0.05	1	0	79.8	75.3	121	0	0		
Toluene	0.9827	0.05	1	0	98.3	65.5	123	0	0		
Chlorobenzene	0.9877	0.05	1	0	96.8	78.3	124	0	0		
1,1-Dichloroethene	0.8256	0.05	1	0	82.6	72.5	122	0	0		
Trichloroethene (TCE)	0.8915	0.05	1	0	89.2	70.8	118	0	0		
Surr: 1,2-Dichloroethane-d4	0.4551	0	0.5	0	91.0	68.4	123	0	0		
Surr: 4-Bromofluorobenzene	0.4447	0	0.5	0	88.9	70	119	0	0		
Surr: DibromoFluoromethane	0.4753	0	0.5	0	95.1	76.8	123	0	0		
Surr: Toluene-d8	0.4868	0	0.5	0	97.4	75.9	118	0	0		

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

**S - Spike Recovery outside accepted recovery limits**  
R - RPD outside accepted recovery limits

**B - Analyte detected in the associated Method Blank**

# QC SUMMARY REPORT

Laboratory Control Spike - generic

**CLIENT:** AMEC  
**Work Order:** 0407206  
**Project:** ABQ Arena

Sample ID: Ics-6174	Batch ID: 6174	Test Code: SW8270A	Units: mg/Kg	Run ID: ELMO_040803A	Analysis Date: 8/3/2004	Prep Date: 7/22/2004	SeqNo: 293554	Qual				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene		1.133	0.2	1.67	0	67.9	54	95.8	0	0		
4-Chloro-3-methylphenol		2.455	0.2	3.333	0	73.6	55.8	98	0	0		
2-Chlorophenol		2.254	0.2	3.333	0	67.6	51.4	98.7	0	0		
1,4-Dichlorobenzene		1.113	0.2	1.67	0	66.7	45.9	93.1	0	0		
2,4-Dinitrotoluene		1.258	0.2	1.67	0	75.3	59.3	99.9	0	0		
N-Nitrosodi-n-propylamine		1.198	0.2	1.67	0	71.7	52.7	92.5	0	0		
4-Nitrophenol		2.476	0.2	3.333	0	74.3	62.1	101	0	0		
Pentachlorophenol		2.25	0.5	3.333	0	67.5	53.9	111	0	0		
Phenol		2.322	0.2	3.333	0	69.7	48.8	97	0	0		
Pyrene		1.253	0.2	1.67	0	75.0	61.9	102	0	0		
1,2,4-Trichlorobenzene		1.106	0.2	1.67	0	66.2	45.2	93.6	0	0		
Surr: 2,4,6-Tribromophenol		2.518	0	3.333	0	75.5	26	156	0	0		
Surr: 2-Fluorobiphenyl		1.214	0	1.67	0	72.7	23.6	111	0	0		
Surr: 2-Fluorophenol		2.295	0	3.333	0	68.8	21.5	107	0	0		
Surr: 4-Terphenyl-d14		1.339	0	1.67	0	80.2	30	120	0	0		
Surr: Nitrobenzene-d5		1.128	0	1.67	0	67.5	25.3	115	0	0		
Surr: Phenol-d6		2.519	0	3.333	0	75.6	25.2	115	0	0		

**Qualifiers:** ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 16-Aug-04

**QC SUMMARY REPORT**  
Sample Matrix Spike

<b>CLIENT:</b>	AMEC
<b>Work Order:</b>	0407206
<b>Project:</b>	ABQ Arena

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPPD	RPDLimit	Qual	Analysis Date	Prep Date
												Test Code:	Run ID:
<b>Gasoline Range Organics (GRO)</b> Sur: BFB	24.25	5	25	0	97.0	73.8	120	0					
	1170	0	1250	0	93.6	74	118	0					
<b>Sample ID: 0407206-17a msd</b> <b>Client ID: P-7-31'32'</b>	<b>Batch ID: R12535</b>	<b>Test Code: SW8015</b>	<b>Units: mg/Kg</b>									Analysis Date	7/24/2004 1:47:03 AM
												SeqNo:	290181
<b>Gasoline Range Organics (GRO)</b> Sur: BFB	26.5	5	25	0	106	73.8	120	24.25	8.87	11.6	0		
	1211	0	1250	0	96.9	74	118	1170	3.46	0			
<b>Sample ID: 0407206-14a ms</b> <b>Client ID: P-3COMP</b>	<b>Batch ID: R12539</b>	<b>Test Code: SW8260B</b>	<b>Units: mg/Kg</b>									Analysis Date	7/23/2004
												SeqNo:	290250
<b>Benzene</b> <b>Toluene</b> <b>Chlorobenzene</b> <b>1,1-Dichloroethene</b> <b>Trichloroethene (TCE)</b> <b>Surr: 1,2-Dichloroethane-d4</b> <b>Surr: 4-Bromofluorobenzene</b> <b>Surr: Dibromofluoromethane</b> <b>Surr: Toluene-d8</b>	0.9366	0.05	1	0	93.7	75.3	121						
	1.08	0.05	1	0	108	65.5	123						
<b>40 / 42</b>	1.065	0.05	1	0	106	78.3	124						
	0.9255	0.05	1	0	92.6	72.5	122						
<b>0.9162</b> <b>0.5014</b> <b>0.4356</b> <b>0.498</b> <b>0.5142</b>	0.05	1	0	91.6	70.8	118							
	0	0.5	0	100	68.4	123							
<b>J - Analyte detected below quantitation limits</b> <b>Qualifiers:</b>		0.5	0	87.1	70	119							
	0	0.5	0	99.6	76.8	123							
<b>S - Spike Recovery outside accepted recovery limits</b> <b>R - RPD outside accepted recovery limits</b> <b>B - Analyte detected in the associated Method Blank</b>		0	103	75.9	118	0							

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

I

# QC SUMMARY REPORT

Sample Matrix Spike Duplicate

Client:	AMEC	Work Order:	0407206	Batch ID:	R12539	Test Code:	SW8260B	Units:	mg/Kg	Run ID:	VAL_040723A	Analysis Date:	7/23/2004	Prep Date	
Client ID:	P-3COMP	SeqNo:	290251	%REC		LowLimit		HighLimit		RPD Ref Val		%RPD		RPDLimit	
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%REC	LowLimit	HighLimit	%REC	LowLimit	HighLimit	
Benzene	0.9359	0.05	1	0	93.6	76.3	121	0.9366	0.0748			20			
Toluene	0.9847	0.05	1	0	98.5	65.5	123	1.08	9.20			20			
Chlorobenzene	0.9999	0.05	1	0	100	78.3	124	1.065	6.26			20			
1,1-Dichloroethene	0.9478	0.05	1	0	94.8	72.5	122	0.9255	2.38			20			
Trichloroethene (TCE)	0.975	0.05	1	0	97.5	70.8	118	0.9162	6.22			20			
Surf: 1,2-Dichloroethane-d4	0.505	0	0.5	0	101	68.4	123	0.5014	0.715			0			
Surf: 4-Bromofluorobenzene	0.4741	0	0.5	0	94.8	70	119	0.4356	8.46			0			
Surf: DibromoFluoromethane	0.5205	0	0.5	0	104	76.8	123	0.498	4.42			0			
Surf: Toluene-d8	0.4895	0	0.5	0	97.9	75.9	118	0.5142	4.92			0			

Qualifiers:

ND - Not Detected at the Reporting Limit

I - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

R - RPD outside accepted recovery limits

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name AMEC

Date and Time Received:

7/20/2004

Work Order Number 0407206

Received by AT

Checklist completed by Anne Ohne

Signature

7/20/04

Date

Matrix

Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>
Container/Temp Blank temperature?	<u>6°</u>	<u>4° C ± 2 Acceptable</u>	If given sufficient time to cool.

### COMMENTS:

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Client contacted \_\_\_\_\_

Date contacted: \_\_\_\_\_

Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_

Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

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Corrective Action: \_\_\_\_\_



# CHAIN-OF-CUSTODY RECORD

Client: ANIEC E&E

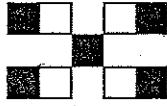
Other:

Abq. Arena  
Peter Guerra

Project Name:

NELAC  USACE

Accreditation Applied:



**HALL ENVIRONMENTAL**  
**ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

Air Bubbles or Headspace (Y or N)

## ANALYSIS REQUEST

- |                               |                                   |                    |                    |                   |                   |               |  |                                |             |                 |                                   |
|-------------------------------|-----------------------------------|--------------------|--------------------|-------------------|-------------------|---------------|--|--------------------------------|-------------|-----------------|-----------------------------------|
| TPH Method 8015B (Gas/Diesel) | BTEx + MTBE + TPH (Gasoline Only) | EDB (Method 418.1) | TPH (Method 418.1) | EDC (Method 8021) | 8310 (PNA or PAH) | RCRA 8 Metals | Amines (F, Cl, NO <sub>2</sub> , NO <sub>3</sub> , PO <sub>4</sub> , SO <sub>4</sub> ) | 8081 Pesticides / PCB's (8082) | 8260B (VDA) | 8270 (Semi-VDA) | Air Bubbles or Headspace (Y or N) |
|-------------------------------|-----------------------------------|--------------------|--------------------|-------------------|-------------------|---------------|--|--------------------------------|-------------|-----------------|-----------------------------------|

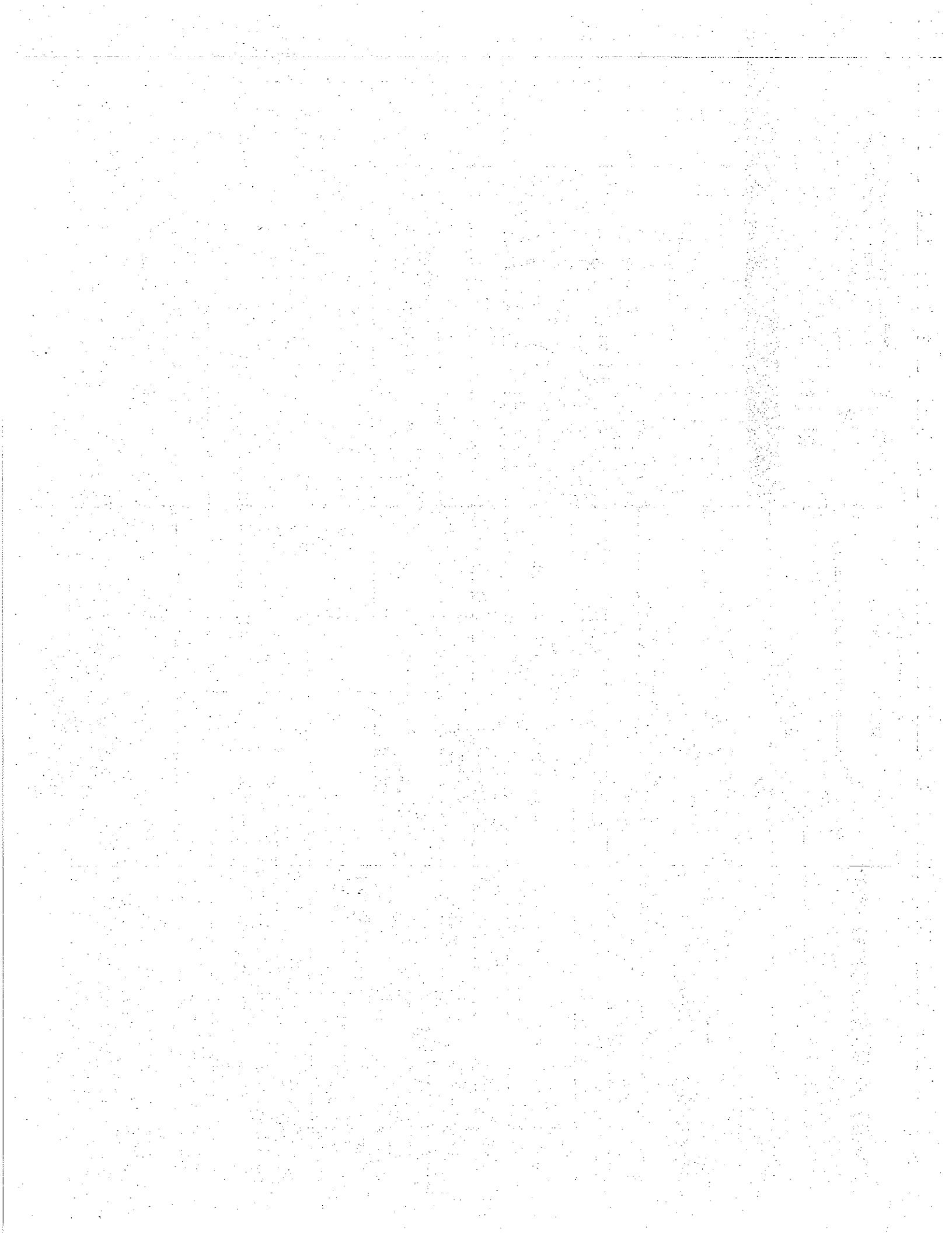
Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative	HEAL No.
7-19-04	12:20	P-3	30'-31'	2x20ml 1x250ml	HgCl <sub>2</sub> , HNO <sub>3</sub>	010720b-13
7-19-04	12:32	P3 Comp		2x20ml 2x250ml		-14
7-19-04	14:58	PAC	P-3 29'-30' PAC			1476
7-19-04	14:58	P-5	29'-30'	2x20ml 1x250ml		-15
7-19-04	16:20	P-6	28'-29'			-16
7-20-04	7:46	P-7	31'-32'			-17
7-20-04	8:54	P-8	21'-22'			-18
7-20-04	9:06	P-8	27'-28'			-19

Date: 7/20/04 Time: 1:30 Relinquished By: (Signature) Received By: (Signature)  
Date: 7/20/04 Time: 1:30 Relinquished By: (Signature) Received By: (Signature)

Remarks:

Der PG 8260B 8270 for P-3 Comp

At 1:305





## COVER LETTER

August 10, 2004

Peter A. Guerra  
AMEC  
8519 Jefferson Street, NE  
Albuquerque, NM 87113  
TEL: (505) 821-1801  
FAX (505) 821-7371

RE: ABQ Arena

Order No.: 0407224

Dear Peter A. Guerra:

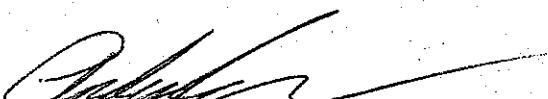
Hall Environmental Analysis Laboratory received 14 samples on 7/21/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



**Hall Environmental Analysis Laboratory**

Date: 11-Aug-04

CLIENT: AMEC  
Project: ABQ Arena  
Lab Order: 0407224

**CASE NARRATIVE**

"S" flags denote surrogates that were not recoverable due to matrix interferences or sample dilution.

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407224  
**Project:** ABQ Arena  
**Lab ID:** 0407224-01

**Client Sample ID:** P-4-19.0'-20.0'  
**Collection Date:** 7/21/2004 7:35:00 AM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	1300	100		mg/Kg	10	8/10/2004 5:04:06 AM	JMP
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/10/2004 5:04:06 AM	
Surr: DNOP	0	60-124	S	%REC	10	8/10/2004 5:04:06 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	7/26/2004 9:46:49 PM	NSB
Surr: BFB	94.9	74-118		%REC	20	7/26/2004 9:46:49 PM	

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

2 / 19

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT: AMEC Client Sample ID: P-4-21.5'-22.5'

Lab Order: 0407224 Collection Date: 7/21/2004 7:45:00 AM

Project: ABQ Arena

Lab ID: 0407224-02

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	67	10		mg/Kg	1	Analyst: JMP 8/3/2004 11:58:10 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/3/2004 11:58:10 PM
Surr: DNOP	81.2	60-124		%REC	1	8/3/2004 11:58:10 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: NSB 7/26/2004 10:17:28 PM
Surr: BFB	99.6	74-118		%REC	1	7/26/2004 10:17:28 PM

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-9-22.0-23.0'
Lab Order:	0407224	Collection Date:	7/20/2004 10:23:00 AM
Project:	ABQ Arena		
Lab ID:	0407224-03	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	6300	100		mg/Kg	10	8/10/2004 5:34:54 AM	
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/10/2004 5:34:54 AM	
Surr: DNOP	0	60-124	S	%REC	10	8/10/2004 5:34:54 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	250		mg/Kg	50	7/26/2004 10:48:07 PM	
Surr: BFB	95.4	74-118		%REC	50	7/26/2004 10:48:07 PM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT: AMEC  
Lab Order: 0407224  
Project: ABQ Arena  
Lab ID: 0407224-04

Client Sample ID: P-9-28.0-29.0'  
Collection Date: 7/20/2004 10:38:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	3000	100		mg/Kg	10	8/10/2004 6:05:31 AM
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/10/2004 6:05:31 AM
Surr: DNOP	0	60-124	S	%REC	10	8/10/2004 6:05:31 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	100		mg/Kg	20	7/29/2004 7:18:16 PM
Surr: BFB	98.5	74-118		%REC	20	7/29/2004 7:18:16 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-10-23.0'-24.0'
Lab Order:	0407224	Collection Date:	7/20/2004 12:19:00 PM
Project:	ABQ Arena		
Lab ID:	0407224-05	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	2700	100		mg/Kg	10	8/10/2004 6:35:19 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	500		mg/Kg	10	8/10/2004 6:35:19 AM	
Surr: DNOP	0	60-124	S	%REC	10	8/10/2004 6:35:19 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	25		mg/Kg	5	7/30/2004 3:03:13 PM	Analyst: NSB
Surr: BFB	97.5	74-118		%REC	5	7/30/2004 3:03:13 PM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level 6 / 19

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

**CLIENT:** AMEC                   **Client Sample ID:** P-10-29.0'-30.0'  
**Lab Order:** 0407224               **Collection Date:** 7/20/2004 12:31:00 PM  
**Project:** ABQ Arena  
**Lab ID:** 0407224-06               **Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	67	10		mg/Kg	1	8/3/2004 7:24:52 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/3/2004 7:24:52 AM	
Surr: DNOP	75.7	60-124		%REC	1	8/3/2004 7:24:52 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	7/30/2004 3:34:00 PM	Analyst: NSB
Surr: BFB	97.4	74-118		%REC	2	7/30/2004 3:34:00 PM	

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

7 / 19

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-11-22.0'-23.0'
Lab Order:	0407224	Collection Date:	7/20/2004 2:00:00 PM
Project:	ABQ Arena	Matrix:	MEOH (SOIL)
Lab ID:	0407224-07		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 3:32:40 AM	JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 3:32:40 AM	
Surr: DNOP	111	60-124		%REC	1	8/4/2004 3:32:40 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/27/2004 12:51:13 AM	NSB
Surr: BFB	92.5	74-118		%REC	1	7/27/2004 12:51:13 AM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-11-29.0'-30.0'
Lab Order:	0407224	Collection Date:	7/20/2004 2:12:00 PM
Project:	ABQ Arena		
Lab ID:	0407224-08	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	74	10		mg/Kg	1	8/4/2004 4:02:52 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 4:02:52 AM	
Surr: DNOP	110	60-124		%REC	1	8/4/2004 4:02:52 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	10		mg/Kg	2	7/30/2004 4:04:47 PM	Analyst: NSB
Surr: BFB	99.8	74-118		%REC	2	7/30/2004 4:04:47 PM	

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 10-Aug-04

CLIENT: AMEC  
Lab Order: 0407224  
Project: ABQ Arena  
Lab ID: 0407224-09

Client Sample ID: P-12A-21.0'-22.0'  
Collection Date: 7/21/2004 9:13:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 4:33:46 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 4:33:46 AM	
Sur: DNOP	61.2	60-124		%REC	1	8/4/2004 4:33:46 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 9:19:42 PM	Analyst: NSB
Sur: BFB	93.4	74-118		%REC	1	7/29/2004 9:19:42 PM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

10 / 19

Page 9 of 14

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407224  
**Project:** ABQ Arena  
**Lab ID:** 0407224-10

**Client Sample ID:** P-13-23.0'-24.0'  
**Collection Date:** 7/21/2004 10:24:00 AM  
**Matrix:** MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 5:04:35 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 5:04:35 AM
Surr: DNOP	61.3	60-124		%REC	1	8/4/2004 5:04:35 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 9:49:57 PM
Surr: BFB	95.4	74-118		%REC	1	7/29/2004 9:49:57 PM

**Qualifiers:**  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-13-29.0'-30.0'
Lab Order:	0407224	Collection Date:	7/21/2004 10:37:00 AM
Project:	ABQ Arena		
Lab ID:	0407224-11	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 5:35:14 AM	
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 5:35:14 AM	
Surr: DNOP	61.5	60-124		%REC	1	8/4/2004 5:35:14 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 10:20:18 PM	
Surr: BFB	99.3	74-118		%REC	1	7/29/2004 10:20:18 PM	

Qualifiers: ND - Not Detected at the Reporting Limit.

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level 12 / 19

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT: AMEC  
Lab Order: 0407224  
Project: ABQ Arena  
Lab ID: 0407224-12

Client Sample ID: P-14-23.0'-24.0'  
Collection Date: 7/21/2004 11:50:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 6:05:47 AM Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 6:05:47 AM
Surr: DNOP	61.7	60-124		%REC	1	8/4/2004 6:05:47 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 10:50:39 PM
Surr: BFB	93.6	74-118		%REC	1	7/29/2004 10:50:39 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

**Hall Environmental Analysis Laboratory**

Date: 10-Aug-04

CLIENT: AMEC

Client Sample ID: P-14-29.0'-30.0'

Lab Order: 0407224

Collection Date: 7/21/2004 12:02:00 PM

Project: ABQ Arena

Matrix: MEOH (SOIL)

Lab ID: 0407224-13

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 7:36:13 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 7:36:13 AM	
Surr: DNOP	109	60-124		%REC	1	8/4/2004 7:36:13 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 11:21:20 PM	Analyst: NSB
Surr: BFB	91.7	74-118		%REC	1	7/29/2004 11:21:20 PM	

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level 14 / 19

# Hall Environmental Analysis Laboratory

Date: 10-Aug-04

CLIENT: AMEC  
Lab Order: 0407224  
Project: ABQ Arena  
Lab ID: 0407224-14

Client Sample ID: P-15-27.0'-28.0'  
Collection Date: 7/21/2004 1:15:00 PM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	8/4/2004 8:06:07 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/4/2004 8:06:07 AM	
Surr: DNOP	105	60-124		%REC	1	8/4/2004 8:06:07 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/29/2004 11:51:33 PM	Analyst: NSB
Surr: BFB	86.8	74-118		%REC	1	7/29/2004 11:51:33 PM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 10-Aug-04

**QC SUMMARY REPORT**

Method Blank

CLIENT: AMEC  
Work Order: 04072244  
Project: ABQ Arena

Sample ID	MB-6205	Batch ID:	6205	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/3/2004 5:52:44 AM	Prep Date	7/29/2004	
Client ID:		Run ID:	FID(17A) 2_040802A	SeqNo:	293112							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%6RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	10.33	0	10	0	0	103	60	124	0	0	0	

Sample ID	MB-6205	Batch ID:	6205	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/3/2004 4:09:50 PM	Prep Date	7/29/2004	
Client ID:		Run ID:	FID(17A) 2_040802A	SeqNo:	293490							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%6RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surr: DNOP	10.87	0	10	0	0	109	60	124	0	0	0	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
B - Analyte detected in the associated Method Blank  
I

# Hall Environmental Analysis Laboratory

Date: 10-Aug-04

## QC SUMMARY REPORT

Laboratory Control Spike - generic

Client:	AMEC									
Work Order:	0407224									
Project:	ABQ Arena									
<b>17/19</b>										
Sample ID	LCS-6205	Batch ID:	6205	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	8/3/2004 6:23:54 AM	Prep Date
Client ID:		Run ID:	FID(17A) 2_040802A	SeqNo:	293113					7/29/2004
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Diesel Range Organics (DRO)	54.18	10	50	0	108	67.4	117	0		Qual
Sample ID	GRO std 2.5ug	Batch ID:	R12556	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	7/27/2004 2:23:19 AM	Prep Date
Client ID:		Run ID:	PIDFID_040726A	SeqNo:	290658					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	22.38	5	25	0	89.5	73.8	120	0		Qual
Sample ID	GRO std 2.5ug	Batch ID:	R12556	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	7/27/2004 3:24:47 AM	Prep Date
Client ID:		Run ID:	PIDFID_040726A	SeqNo:	290660					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	23.06	5	25	0	92.2	73.8	120	22.38	2.99	11.6
Sample ID	GRO std 2.5ug	Batch ID:	R12596	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	7/30/2004 12:21:55 AM	Prep Date
Client ID:		Run ID:	PIDFID_040729A	SeqNo:	291691					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	25.94	5	25	0	104	73.8	120	0		Qual
Sample ID	GRO std 2.5ug	Batch ID:	R12596	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	7/30/2004 5:26:30 AM	Prep Date
Client ID:		Run ID:	PIDFID_040729A	SeqNo:	291692					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit
Gasoline Range Organics (GRO)	23.83	5	25	0	95.3	73.8	120	25.94	8.48	11.6

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Laboratory Control Spike - generic

**CLIENT:** AMEC  
**Work Order:** 0407224  
**Project:** ABQ Arena

Sample ID	GRO std 2.5ug	Batch ID:	R12612	Test Code:	SW8015	Units:	mg/Kg	Analysis Date 7/30/2004 10:06:37 AM			Prep Date	
Client ID:				Run ID:	PIDFID_040730A <th></th> <th></th> <th>SeqNo:</th> <td>292131</td> <td></td> <td></td>			SeqNo:	292131			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		25.36	5	25	0	101	73.8	120	0			
Sample ID	GRO std 2.5ug	Batch ID:	R12612	Test Code:	SW8015	Units:	mg/Kg	Analysis Date 7/30/2004 6:38:06 PM			Prep Date	
Client ID:				Run ID:	PIDFID_040730A <th></th> <th></th> <th>SeqNo:</th> <td>292132</td> <td></td> <td></td>			SeqNo:	292132			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)		25.07	5	25	0	100	73.8	120	25.36	1.15	11.6	

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name AMEC

Date and Time Received:

7/21/2004

Work Order Number 0407224

Received by AT

Checklist completed by

*Dave Hanes*  
Signature

Date

7/21/04

Matrix

Carrier name Client drop-off

Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input checked="" type="checkbox"/> Not Shipped <input type="checkbox"/>
Custody seals intact on sample bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input checked="" type="checkbox"/>	Yes <input type="checkbox"/>	No <input type="checkbox"/>
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>

Container/Temp Blank temperature?

5° 4° C ± 2 Acceptable

If given sufficient time to cool.

### COMMENTS:

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Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

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Corrective Action \_\_\_\_\_

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## **CHAIN-OFF-CUSTODY RECORD**

Client: MECE

Accreditation Applied:  
NELAC  USACE

Other:

Aba Arena

Address: 3519 1st Avenue NE

Albifrons N.W.  
7/13

Phone #: 505-821-1801 Sampler:  
Fax #: 505-871-7371 Sample Tel:

Date      Time      Matrix      Sample I.D. No.      Number/  
13/1

2021/04 7:35 564 P-4 -19:0-20.0' 2x25 1x25

21/04 7:45 P-4-21.5'-22.5'  
21/04 16:23 D-9-22.0-23.0'

PA-280-290, 1038, 2004, 1038

20/04/12:31 - 10-29.0' -30.0'

20/04	14:00	P-11 - 22.0	23.0
20/04	14:12	P-11 - 29.0	30.0

22/10/4 9:13 D-12A2 10'22.0  
22/10/4 10:24 D-12-3 2D-214.4

✓ 11/23.0-29.0-30.0

Refurbished By: (Signature) *[Signature]*

Date: \_\_\_\_\_ Relinquished By: (Signature) Time: \_\_\_\_\_

## HALL ENVIRONMENTAL ANALYSIS LABORATORY

4501 N. Hawkings NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

**Remarks:**

Received By: (Signature)

**CHAIN-OF-CUSTODY RECORD**

Client: AMEE E&E

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ACGI Editavoli Aperte.

USACE □ NELAC □

卷之三

Other

**Project Name:**

Albuquerque, New Mexico 87102  
Tel. 505.345.3975 Fax 505.345.3975  
[www.hallenvIRONMENTAL.com](http://www.hallenvIRONMENTAL.com)

Address: 3519 Jefferson NE  
Albuquerque NM  
107113

Holy Trinity  
Object #: 4-517-000774

三

Decision Makers

Phone #: 505-821-1801  
Fax #: 505-821-7371

Sample

**Remarks:**

三

Enquiries by telephone

Date: 01/01/01

Received By: [Signature]

10

Relinquished By: (Signature)

21

HALL ENVIRONMENTAL  
ANALYSIS LABORATORY

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
[www.hallenvironmental.com](http://www.hallenvironmental.com)

ANALYSIS DIRECT

### Air Bubbles or Headspace (Y or N)

Table 1. Summary of the results of the field surveys of the distribution of *Leucaspis* spp. in the United States.



## COVER LETTER

August 09, 2004

Peter A. Guerra  
AMEC  
8519 Jefferson Street, NE  
Albuquerque, NM 87113  
TEL: (505) 821-1801  
FAX (505) 821-7371

RE: ABQ Arena

Order No.: 0407246

Dear Peter A. Guerra:

Hall Environmental Analysis Laboratory received 7 samples on 7/22/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT: AMEC  
Lab Order: 0407246  
Project: ABQ Arena  
Lab ID: 0407246-01

Client Sample ID: P-16 22-23'  
Collection Date: 7/22/2004 7:47:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	Analyst: JMP 8/6/2004 7:50:57 AM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 7:50:57 AM
Surr: DNOP	111	60-124		%REC	1	8/6/2004 7:50:57 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	Analyst: NSB 7/30/2004 12:52:44 AM
Surr: BFB	92.5	74-118		%REC	1	7/30/2004 12:52:44 AM

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-17 23-24'
Lab Order:	0407246	Collection Date:	7/22/2004 9:00:00 AM
Project:	ABQ Arena		
Lab ID:	0407246-02	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	44	10		mg/Kg	1	8/6/2004 8:22:03 AM	JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 8:22:03 AM	
Surr: DNOP	78.2	60-124		%REC	1	8/6/2004 8:22:03 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/30/2004 1:23:08 AM	NSB
Surr: BFB	93.9	74-118		%REC	1	7/30/2004 1:23:08 AM	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	E - Value above quantitation range
	* - Value exceeds Maximum Contaminant Level	

**Hall Environmental Analysis Laboratory**

Date: 09-Aug-04

CLIENT:	AMEC	Client Sample ID:	P-17 25.5-26.5'
Lab Order:	0407246	Collection Date:	7/22/2004 9:12:00 AM
Project:	ABQ Arena		
Lab ID:	0407246-03	Matrix:	MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Analyst
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	200	10		mg/Kg	1	8/6/2004 8:52:49 AM	JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 8:52:49 AM	
Surr: DNOP	114	60-124		%REC	1	8/6/2004 8:52:49 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/30/2004 1:53:24 AM	NSB
Surr: BFB	86.6	74-118		%REC	10	7/30/2004 1:53:24 AM	

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT: AMEC  
Lab Order: 0407246  
Project: ABQ Arena  
Lab ID: 0407246-04

Client Sample ID: P-18 21-22'  
Collection Date: 7/22/2004 10:10:00 AM  
Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	17	10		mg/Kg	1	8/6/2004 9:23:18 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 9:23:18 AM	
Surr: DNOP	112	60-124		%REC	1	8/6/2004 9:23:18 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	8/2/2004 1:03:58 PM	Analyst: NSB
Surr: BFB	95.1	74-118		%REC	1	8/2/2004 1:03:58 PM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT: AMEC  
Lab Order: 0407246  
Project: ABQ Arena  
Lab ID: 0407246-05

Client Sample ID: P-19 21.5'

Collection Date: 7/22/2004 11:10:00 AM

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	
<b>EPA METHOD 8015B: DIESEL RANGE</b>							
Diesel Range Organics (DRO)	22	10		mg/Kg	1	8/6/2004 9:53:59 AM	Analyst: JMP
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 9:53:59 AM	
Surr: DNOP	110	60-124		%REC	1	8/6/2004 9:53:59 AM	
<b>EPA METHOD 8015B: GASOLINE RANGE</b>							
Gasoline Range Organics (GRO)	ND	50		mg/Kg	10	7/30/2004 2:54:09 AM	Analyst: NSB
Surr: BFB	94.8	74-118		%REC	10	7/30/2004 2:54:09 AM	

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT: AMEC  
Lab Order: 0407246  
Project: ABQ Arena  
Lab ID: 0407246-06

Client Sample ID: P-20 14'

Collection Date: 7/22/2004 12:15:00 PM

Matrix: MEOH (SOIL)

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	500	10		mg/Kg	1	8/6/2004 5:07:52 PM
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	8/6/2004 5:07:52 PM
Surr: DNOP	98.9	60-124		%REC	1	8/6/2004 5:07:52 PM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/30/2004 3:24:55 AM
Surr: BFB	102	74-118		%REC	1	7/30/2004 3:24:55 AM

Qualifiers:  
ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 09-Aug-04

CLIENT: AMEC  
Lab Order: 0407246  
Project: ABQ Arena  
Lab ID: 0407246-07

Client Sample ID: MEOH BLANK

Collection Date:

Matrix: MEOH BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	7/30/2004 3:55:20 AM
Surr: BFB	93.3	74-118		%REC	1	7/30/2004 3:55:20 AM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

## Hall Environmental Analysis Laboratory

Date: 09-Aug-04

### QC SUMMARY REPORT

CLIENT: AMEC  
 Work Order: 0407246  
 Project: ABQ Arena

Method Blank

Sample ID	MB-6208	Batch ID:	6208	Test Code:	SW8015	Units:	mg/Kg	Analysis Date	7/31/2004 11:36:35 PM	Prep Date	7/29/2004	
Client ID:		Run ID:	FID(17A) 2_040730A	SeqNo:	292046							
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10										
Motor Oil Range Organics (MRO)	ND	50										
Surf: DNOP	8.966	0	10	0	89.7	60	124	0				

Qualifiers:

ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: 09-Aug-04

**QC SUMMARY REPORT**

Laboratory Control Spike - generic

CLIENT: AMEC  
Work Order: 0407246  
Project: ABQ Arena

Sample ID	Batch ID:	Test Code:	Units:	Analysis Date	Prep Date
Client ID:		Run ID:	mg/Kg	8/1/2004 12:07:18 AM	7/29/2004
Analyte	Result	PQL	SPK value	%REC	%RPD
Diesel Range Organics (DRO)	50.2	10	50	0	100
Sample ID	GRO std 2.5ug	Batch ID: R12596	Test Code: SWB015	Analysis Date	Prep Date
Client ID:		Run ID: PIDFID_040729A	mg/Kg	7/30/2004 12:21:55 AM	7/29/2004
Analyte	Result	PQL	SPK value	%REC	%RPD
Gasoline Range Organics (GRO)	25.94	5	25	0	104
Sample ID	GRO std 2.5ug	Batch ID: R12596	Test Code: SWB015	Analysis Date	Prep Date
Client ID:		Run ID: PIDFID_040729A	mg/Kg	7/30/2004 5:26:30 AM	7/29/2004
Analyte	Result	PQL	SPK value	%REC	%RPD
Gasoline Range Organics (GRO)	23.83	5	25	0	95.3
Sample ID	GRO std 2.5ug	Batch ID: R12630	Test Code: SWB015	Analysis Date	Prep Date
Client ID:		Run ID: PIDFID_040802A	mg/Kg	8/2/2004 6:44:41 PM	7/29/2004
Analyte	Result	PQL	SPK value	%REC	%RPD
Gasoline Range Organics (GRO)	27.89	5	25	0	112

9 / 10

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name AMEC

Date and Time Received:

Work Order Number 0407246

Received by AMG

Checklist completed by

Signature

Date

*Obregonales 07/22/04*

Matrix

Carrier name Client drop-off

- |   |  |                              |   |   |
|---|--|------------------------------|---|---|
| Shipping container/cooler in good condition?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>    |   |
| Custody seals intact on shipping container/cooler?      | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | Not Present <input type="checkbox"/>    | Not Shipped <input checked="" type="checkbox"/> |
| Custody seals intact on sample bottles?                 | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  | N/A <input type="checkbox"/>            |   |
| Chain of custody present?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Chain of custody agrees with sample labels?             | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Samples in proper container/bottle?                     | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Sample containers intact?                               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Sufficient sample volume for indicated test?            | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| All samples received within holding time?               | Yes <input checked="" type="checkbox"/>                    | No <input type="checkbox"/>  |   |   |
| Water - VOA vials have zero headspace?                  | No VOA vials submitted <input checked="" type="checkbox"/> | Yes <input type="checkbox"/> | No <input type="checkbox"/>             |   |
| Water - pH acceptable upon receipt?                     | Yes <input type="checkbox"/>                               | No <input type="checkbox"/>  | N/A <input checked="" type="checkbox"/> |   |

Container/Temp Blank temperature?

9°

4° C ± 2 Acceptable

If given sufficient time to cool.

### COMMENTS:

Client contacted \_\_\_\_\_

Date contacted: \_\_\_\_\_

Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_

Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

Corrective Action: \_\_\_\_\_

**CHAIN-OF-CUSTODY RECORD**

Accreditation Applied:	<input type="checkbox"/> NEAC	<input type="checkbox"/> USACE
Other:		

**HALL ENVIRONMENTAL  
ANALYSIS LABORATORY**

4901 Hawkins NE, Suite D  
Albuquerque, New Mexico 87109  
Tel. 505.345.3975 Fax 505.345.4107  
www.hallenvironmental.com

Address: 8519 JEFFERSON NE  
Albuquerque, NM  
Phone #: 821-1801  
Fax #: 821-7371

Client: AMEC EARTH + SAVVRO

Project Name:  
**ABQ ARENA**

Project #: 4-517-000073A

Project Manager:  
87113

**D. GUERRA**

Sampler: J. COTTER/T.C.PFSS  
Sample Temperature: 9.0

Sample Temperature:

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative		HEAL No. CH4	10407244
					HgCl <sub>2</sub>	HNO <sub>3</sub>		
1-22-04	7:47	Soil	P-16 22-23'	14g/23ml	X		1	
9:00			P-17 23-24'	" "		X	2	
9:12			P-17 25.5-26.5'	" "			3	
10:10			P-18 21-22'	" "		X	4	
11:10			P-19 21.5'	" "		X	5	
12:15	↓		P-20 14'	" "		X	6	
			T. B.				7	

Date: 7-22-04 Time: 15:38 Relinquished By: (Signature) J. Cotter  
Date: Time: Relinquished By: (Signature)

Received By: (Signature) K. Donnelly Remarks: 07/22/04  
Received By: (Signature) 1548

**ANALYSIS REQUEST**

- Air Bubbles or Headspace (Y or N)  
 827D (Semi-VOA)  
 8260B (VOA)  
 8081 Pesticides / PCB's (8082)  
 Atomics (F, Cl, NO<sub>3</sub>, NO<sub>2</sub>, PO<sub>4</sub>, SO<sub>4</sub>)  
 RCRA 8 Metals  
 8310 (PNA or PAH)  
 EDC (Method 8021)  
 EDB (Method 504.1)  
 TPH (Method 418.1)  
 TPH Method 8015B (Gasoline Only) ~~TPH Method 8015B (Gasoline & Diesel)~~  
 BTX + MTBE + TPH (Gasoline Only)  
 BTX + MTBE + TMB's (8021)



## COVER LETTER

August 19, 2004

Peter A. Guerra  
AMEC  
8519 Jefferson Street, NE  
Albuquerque, NM 87113  
TEL: (505) 821-1801  
FAX (505) 821-7371

RE: ABQ Arena

Order No.: 0407265

Dear Peter A. Guerra:

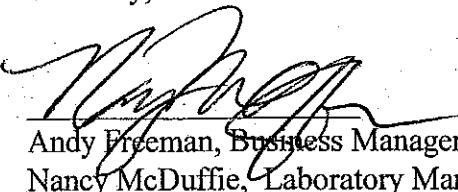
Hall Environmental Analysis Laboratory received 4 samples on 7/26/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

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

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

Sincerely,



Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

<b>CLIENT:</b>	AMEC	<b>Client Sample ID:</b>	MW-1
<b>Lab Order:</b>	0407265	<b>Collection Date:</b>	7/26/2004 11:05:00 AM
<b>Project:</b>	ABQ Arena	<b>Matrix:</b>	AQUEOUS
<b>Lab ID:</b>	0407265-01		

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	Analyst: JMP 8/10/2004 12:29:53 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/10/2004 12:29:53 AM
Surr: DNOP	119	58-140		%REC	1	8/10/2004 12:29:53 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	Analyst: NSB 7/29/2004 3:43:25 PM
Surr: BFB	88.6	74-118		%REC	1	7/29/2004 3:43:25 PM
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	1.0		µg/L	1	Analyst: BDH 7/26/2004
Toluene	ND	1.0		µg/L	1	7/26/2004
Ethylbenzene	ND	1.0		µg/L	1	7/26/2004
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/26/2004
Naphthalene	ND	2.0		µg/L	1	7/26/2004
1-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
2-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
Acetone	ND	10		µg/L	1	7/26/2004
Bromobenzene	ND	1.0		µg/L	1	7/26/2004
Bromoform	ND	1.0		µg/L	1	7/26/2004
Bromomethane	ND	2.0		µg/L	1	7/26/2004
2-Butanone	ND	10		µg/L	1	7/26/2004
Carbon disulfide	ND	10		µg/L	1	7/26/2004
Carbon Tetrachloride	ND	1.0		µg/L	1	7/26/2004
Chlorobenzene	ND	1.0		µg/L	1	7/26/2004
Chloroethane	ND	2.0		µg/L	1	7/26/2004
Chloroform	ND	1.0		µg/L	1	7/26/2004
Chloromethane	ND	1.0		µg/L	1	7/26/2004
2-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
4-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
cis-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/26/2004
Dibromochloromethane	ND	1.0		µg/L	1	7/26/2004
Dibromomethane	ND	2.0		µg/L	1	7/26/2004
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

CLIENT: AMEC  
 Lab Order: 0407265  
 Project: ABQ Arena  
 Lab ID: 0407265-01

Client Sample ID: MW-1  
 Collection Date: 7/26/2004 11:05:00 AM  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/10/2004 12:29:53 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/10/2004 12:29:53 AM
Surr: DNOP	119	58-140		%REC	1	8/10/2004 12:29:53 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/29/2004 3:43:25 PM
Surr: BFB	88.6	74-118		%REC	1	7/29/2004 3:43:25 PM
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	1.0		µg/L	1	7/26/2004
Toluene	ND	1.0		µg/L	1	7/26/2004
Ethylbenzene	ND	1.0		µg/L	1	7/26/2004
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/26/2004
Naphthalene	ND	2.0		µg/L	1	7/26/2004
1-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
2-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
Acetone	ND	10		µg/L	1	7/26/2004
Bromobenzene	ND	1.0		µg/L	1	7/26/2004
Bromochloromethane	ND	1.0		µg/L	1	7/26/2004
Bromodichloromethane	ND	1.0		µg/L	1	7/26/2004
Bromoform	ND	1.0		µg/L	1	7/26/2004
Bromomethane	ND	2.0		µg/L	1	7/26/2004
2-Butanone	ND	10		µg/L	1	7/26/2004
Carbon disulfide	ND	10		µg/L	1	7/26/2004
Carbon Tetrachloride	ND	1.0		µg/L	1	7/26/2004
Chlorobenzene	ND	1.0		µg/L	1	7/26/2004
Chloroethane	ND	2.0		µg/L	1	7/26/2004
Chloroform	ND	1.0		µg/L	1	7/26/2004
Chloromethane	ND	1.0		µg/L	1	7/26/2004
2-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
4-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
cis-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/26/2004
Dibromochloromethane	ND	1.0		µg/L	1	7/26/2004
Dibromomethane	ND	2.0		µg/L	1	7/26/2004
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

CLIENT: AMEC  
 Lab Order: 0407265  
 Project: ABQ Arena  
 Lab ID: 0407265-01

Client Sample ID: MW-1  
 Collection Date: 7/26/2004 11:05:00 AM  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,3-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
2,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
Hexachlorobutadiene	ND	1.0		µg/L	1	7/26/2004
2-Hexanone	ND	10		µg/L	1	7/26/2004
Isopropylbenzene	ND	1.0		µg/L	1	7/26/2004
4-Isopropyltoluene	ND	1.0		µg/L	1	7/26/2004
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2004
Methylene Chloride	ND	3.0		µg/L	1	7/26/2004
n-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
n-Propylbenzene	ND	1.0		µg/L	1	7/26/2004
sec-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
Styrene	ND	1.0		µg/L	1	7/26/2004
tert-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/26/2004
trans-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/26/2004
Trichlorofluoromethane	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/26/2004
Vinyl chloride	ND	1.0		µg/L	1	7/26/2004
Xylenes, Total	ND	1.0		µg/L	1	7/26/2004
Surr: 1,2-Dichloroethane-d4	94.4	70.6-124	%REC		1	7/26/2004
Surr: 4-Bromofluorobenzene	89.8	76.4-130	%REC		1	7/26/2004
Surr: Dibromofluoromethane	97.1	67.2-131	%REC		1	7/26/2004
Surr: Toluene-d8	96.8	82.1-123	%REC		1	7/26/2004
<b>EPA METHOD 8310: PAHS</b>						Analyst: GT
Naphthalene	ND	2.5		µg/L	1	8/19/2004 12:22:17 AM
1-Methylnaphthalene	ND	2.5		µg/L	1	8/19/2004 12:22:17 AM
2-Methylnaphthalene	ND	2.5		µg/L	1	8/19/2004 12:22:17 AM
Acenaphthylene	ND	2.5		µg/L	1	8/19/2004 12:22:17 AM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407265  
**Project:** ABQ Arena  
**Lab ID:** 0407265-01

**Client Sample ID:** MW-1  
**Collection Date:** 7/26/2004 11:05:00 AM

**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	2.5		µg/L	1	8/19/2004 12:22:17 AM
Fluorene	ND	0.80		µg/L	1	8/19/2004 12:22:17 AM
Phenanthrene	ND	0.60		µg/L	1	8/19/2004 12:22:17 AM
Anthracene	ND	0.60		µg/L	1	8/19/2004 12:22:17 AM
Fluoranthene	ND	0.30		µg/L	1	8/19/2004 12:22:17 AM
Pyrene	ND	0.30		µg/L	1	8/19/2004 12:22:17 AM
Benz(a)anthracene	ND	0.020		µg/L	1	8/19/2004 12:22:17 AM
Chrysene	ND	0.20		µg/L	1	8/19/2004 12:22:17 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	8/19/2004 12:22:17 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	8/19/2004 12:22:17 AM
Benzo(a)pyrene	ND	0.020		µg/L	1	8/19/2004 12:22:17 AM
Dibenz(a,h)anthracene	ND	0.080		µg/L	1	8/19/2004 12:22:17 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	8/19/2004 12:22:17 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	8/19/2004 12:22:17 AM
Surrogate: Benzo(e)pyrene	90.8	54-102		%REC	1	8/19/2004 12:22:17 AM

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

CLIENT:	AMEC	Client Sample ID:	MW-2
Lab Order:	0407265	Collection Date:	7/26/2004 11:20:00 AM
Project:	ABQ Arena		
Lab ID:	0407265-02	Matrix:	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/10/2004 1:01:06 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/10/2004 1:01:06 AM
Surr: DNOP	120	58-140		%REC	1	8/10/2004 1:01:06 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/29/2004 4:14:15 PM
Surr: BFB	85.5	74-118		%REC	1	7/29/2004 4:14:15 PM
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	1.0		µg/L	1	7/26/2004
Toluene	ND	1.0		µg/L	1	7/26/2004
Ethylbenzene	ND	1.0		µg/L	1	7/26/2004
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/26/2004
Naphthalene	ND	2.0		µg/L	1	7/26/2004
1-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
2-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
Acetone	ND	10		µg/L	1	7/26/2004
Bromobenzene	ND	1.0		µg/L	1	7/26/2004
Bromochloromethane	ND	1.0		µg/L	1	7/26/2004
Bromodichloromethane	ND	1.0		µg/L	1	7/26/2004
Bromoform	ND	1.0		µg/L	1	7/26/2004
Bromomethane	ND	2.0		µg/L	1	7/26/2004
2-Butanone	ND	10		µg/L	1	7/26/2004
Carbon disulfide	ND	10		µg/L	1	7/26/2004
Carbon Tetrachloride	ND	1.0		µg/L	1	7/26/2004
Chlorobenzene	ND	1.0		µg/L	1	7/26/2004
Chloroethane	ND	2.0		µg/L	1	7/26/2004
Chloroform	ND	1.0		µg/L	1	7/26/2004
Chloromethane	ND	1.0		µg/L	1	7/26/2004
2-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
4-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
cis-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/26/2004
Dibromochloromethane	ND	1.0		µg/L	1	7/26/2004
Dibromomethane	ND	2.0		µg/L	1	7/26/2004
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407265  
**Project:** ABQ Arena  
**Lab ID:** 0407265-02

**Client Sample ID:** MW-2  
**Collection Date:** 7/26/2004 11:20:00 AM  
**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,3-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
2,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
Hexachlorobutadiene	ND	1.0		µg/L	1	7/26/2004
2-Hexanone	ND	10		µg/L	1	7/26/2004
Isopropylbenzene	ND	1.0		µg/L	1	7/26/2004
4-Isopropyltoluene	ND	1.0		µg/L	1	7/26/2004
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2004
Methylene Chloride	ND	3.0		µg/L	1	7/26/2004
n-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
n-Propylbenzene	ND	1.0		µg/L	1	7/26/2004
sec-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
Styrene	ND	1.0		µg/L	1	7/26/2004
tert-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/26/2004
trans-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/26/2004
Trichlorofluoromethane	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/26/2004
Vinyl chloride	ND	1.0		µg/L	1	7/26/2004
Xylenes, Total	ND	1.0		µg/L	1	7/26/2004
Surr: 1,2-Dichloroethane-d4	98.3	70.6-124		%REC	1	7/26/2004
Surr: 4-Bromofluorobenzene	98.5	76.4-130		%REC	1	7/26/2004
Surr: Dibromofluoromethane	107	67.2-131		%REC	1	7/26/2004
Surr: Toluene-d8	104	82.1-123		%REC	1	7/26/2004

## EPA METHOD 8310: PAHS

Analyst: GT

Naphthalene	ND	2.5	µg/L	1	8/19/2004 1:58:19 AM
1-Methylnaphthalene	ND	2.5	µg/L	1	8/19/2004 1:58:19 AM
2-Methylnaphthalene	ND	2.5	µg/L	1	8/19/2004 1:58:19 AM
Acenaphthylene	ND	2.5	µg/L	1	8/19/2004 1:58:19 AM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

5 / 23

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

CLIENT: AMEC  
 Lab Order: 0407265  
 Project: ABQ Arena  
 Lab ID: 0407265-02

Client Sample ID: MW-2  
 Collection Date: 7/26/2004 11:20:00 AM  
 Matrix: AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	2.5		µg/L	1	8/19/2004 1:58:19 AM
Fluorene	ND	0.80		µg/L	1	8/19/2004 1:58:19 AM
Phenanthrene	ND	0.60		µg/L	1	8/19/2004 1:58:19 AM
Anthracene	ND	0.60		µg/L	1	8/19/2004 1:58:19 AM
Fluoranthene	ND	0.30		µg/L	1	8/19/2004 1:58:19 AM
Pyrene	ND	0.30		µg/L	1	8/19/2004 1:58:19 AM
Benz(a)anthracene	ND	0.020		µg/L	1	8/19/2004 1:58:19 AM
Chrysene	ND	0.20		µg/L	1	8/19/2004 1:58:19 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	8/19/2004 1:58:19 AM
Benzo(k)fluoranthene	0.030	0.020		µg/L	1	8/19/2004 1:58:19 AM
Benzo(á)pyrene	ND	0.020		µg/L	1	8/19/2004 1:58:19 AM
Dibenz(a,h)anthracene	0.090	0.080		µg/L	1	8/19/2004 1:58:19 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	8/19/2004 1:58:19 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	8/19/2004 1:58:19 AM
Surr: Benzo(e)pyrene	85.7	54-102		%REC	1	8/19/2004 1:58:19 AM

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

<b>CLIENT:</b>	AMEC	<b>Client Sample ID:</b>	MW-3
<b>Lab Order:</b>	0407265	<b>Collection Date:</b>	7/26/2004 11:15:00 AM
<b>Project:</b>	ABQ Arena		
<b>Lab ID:</b>	0407265-03	<b>Matrix:</b>	AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	7.1	1.0		mg/L	1	8/10/2004 1:31:34 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/10/2004 1:31:34 AM
Surr: DNOP	107	58-140		%REC	1	8/10/2004 1:31:34 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	0.50		mg/L	10	7/29/2004 4:45:00 PM
Surr: BFB	91.0	74-118		%REC	10	7/29/2004 4:45:00 PM
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	1.0		µg/L	1	7/27/2004
Toluene	ND	1.0		µg/L	1	7/27/2004
Ethylbenzene	ND	1.0		µg/L	1	7/27/2004
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/27/2004
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/27/2004
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/27/2004
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/27/2004
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/27/2004
Naphthalene	9.2	2.0		µg/L	1	7/27/2004
1-Methylnaphthalene	71	4.0		µg/L	1	7/27/2004
2-Methylnaphthalene	28	4.0		µg/L	1	7/27/2004
Acetone	ND	10		µg/L	1	7/27/2004
Bromobenzene	ND	1.0		µg/L	1	7/27/2004
Bromochloromethane	ND	1.0		µg/L	1	7/27/2004
Bromodichloromethane	ND	1.0		µg/L	1	7/27/2004
Bromoform	ND	1.0		µg/L	1	7/27/2004
Bromomethane	ND	2.0		µg/L	1	7/27/2004
2-Butanone	ND	10		µg/L	1	7/27/2004
Carbon disulfide	ND	10		µg/L	1	7/27/2004
Carbon Tetrachloride	ND	1.0		µg/L	1	7/27/2004
Chlorobenzene	ND	1.0		µg/L	1	7/27/2004
Chloroethane	ND	2.0		µg/L	1	7/27/2004
Chloroform	ND	1.0		µg/L	1	7/27/2004
Chloromethane	ND	1.0		µg/L	1	7/27/2004
2-Chlorotoluene	ND	1.0		µg/L	1	7/27/2004
4-Chlorotoluene	ND	1.0		µg/L	1	7/27/2004
cis-1,2-DCE	ND	1.0		µg/L	1	7/27/2004
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/27/2004
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/27/2004
Dibromochloromethane	ND	1.0		µg/L	1	7/27/2004
Dibromomethane	ND	2.0		µg/L	1	7/27/2004
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/27/2004
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/27/2004

Qualifiers: ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

7 / 23

Page 7 of 11

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407265  
**Project:** ABQ Arena  
**Lab ID:** 0407265-03

**Client Sample ID:** MW-3  
**Collection Date:** 7/26/2004 11:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/27/2004
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/27/2004
1,1-Dichloroethane	ND	1.0		µg/L	1	7/27/2004
1,1-Dichloroethene	ND	1.0		µg/L	1	7/27/2004
1,2-Dichloropropane	ND	1.0		µg/L	1	7/27/2004
1,3-Dichloropropane	ND	1.0		µg/L	1	7/27/2004
2,2-Dichloropropane	ND	1.0		µg/L	1	7/27/2004
1,1-Dichloropropene	ND	1.0		µg/L	1	7/27/2004
Hexachlorobutadiene	ND	1.0		µg/L	1	7/27/2004
2-Hexanone	ND	10		µg/L	1	7/27/2004
Isopropylbenzene	ND	1.0		µg/L	1	7/27/2004
4-Isopropyltoluene	ND	1.0		µg/L	1	7/27/2004
4-Methyl-2-pentanone	ND	10		µg/L	1	7/27/2004
Methylene Chloride	ND	3.0		µg/L	1	7/27/2004
n-Butylbenzene	2.9	1.0		µg/L	1	7/27/2004
n-Propylbenzene	ND	1.0		µg/L	1	7/27/2004
sec-Butylbenzene	2.2	1.0		µg/L	1	7/27/2004
Styrene	ND	1.0		µg/L	1	7/27/2004
tert-Butylbenzene	ND	1.0		µg/L	1	7/27/2004
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/27/2004
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	7/27/2004
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/27/2004
trans-1,2-DCE	ND	1.0		µg/L	1	7/27/2004
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/27/2004
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/27/2004
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/27/2004
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/27/2004
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/27/2004
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/27/2004
Trichlorofluoromethane	ND	1.0		µg/L	1	7/27/2004
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/27/2004
Vinyl chloride	ND	1.0		µg/L	1	7/27/2004
Xylenes, Total	ND	1.0		µg/L	1	7/27/2004
Sur: 1,2-Dichloroethane-d4	101	70.6-124		%REC	1	7/27/2004
Sur: 4-Bromofluorobenzene	106	76.4-130		%REC	1	7/27/2004
Sur: Dibromofluoromethane	103	67.2-131		%REC	1	7/27/2004
Sur: Toluene-d8	100	82.1-123		%REC	1	7/27/2004
<b>EPA METHOD 8310: PAHS</b>						Analyst: GT
Naphthalene	15	2.5		µg/L	1	8/19/2004 2:46:20 AM
1-Methylnaphthalene	89	2.5		µg/L	1	8/19/2004 2:46:20 AM
2-Methylnaphthalene	35	2.5		µg/L	1	8/19/2004 2:46:20 AM
Acenaphthylene	ND	2.5		µg/L	1	8/19/2004 2:46:20 AM

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407265  
**Project:** ABQ Arena  
**Lab ID:** 0407265-03

**Client Sample ID:** MW-3  
**Collection Date:** 7/26/2004 11:15:00 AM  
**Matrix:** AQUEOUS

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Acenaphthene	ND	2.5		µg/L	1	8/19/2004 2:46:20 AM
Fluorene	7.1	0.80		µg/L	1	8/19/2004 2:46:20 AM
Phenanthrene	10	6.0		µg/L	10	8/19/2004 9:10:14 AM
Anthracene	ND	0.60		µg/L	1	8/19/2004 2:46:20 AM
Fluoranthene	ND	0.30		µg/L	1	8/19/2004 2:46:20 AM
Pyrene	ND	0.30		µg/L	1	8/19/2004 2:46:20 AM
Benz(a)anthracene	ND	0.020		µg/L	1	8/19/2004 2:46:20 AM
Chrysene	ND	0.20		µg/L	1	8/19/2004 2:46:20 AM
Benzo(b)fluoranthene	ND	0.050		µg/L	1	8/19/2004 2:46:20 AM
Benzo(k)fluoranthene	ND	0.020		µg/L	1	8/19/2004 2:46:20 AM
Benzo(a)pyrene	ND	0.020		µg/L	1	8/19/2004 2:46:20 AM
Dibenz(a,h)anthracene	ND	0.080		µg/L	1	8/19/2004 2:46:20 AM
Benzo(g,h,i)perylene	ND	0.030		µg/L	1	8/19/2004 2:46:20 AM
Indeno(1,2,3-cd)pyrene	ND	0.080		µg/L	1	8/19/2004 2:46:20 AM
Sur. Benzo(e)pyrene	93.9	54-102		%REC	1	8/19/2004 2:46:20 AM

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

9 / 23

Page 9 of 11

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC                           **Client Sample ID:** TRIP BLANK  
**Lab Order:** 0407265                       **Collection Date:**  
**Project:** ABQ Arena                          
**Lab ID:** 0407265-04                        **Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
<b>EPA METHOD 8015B: DIESEL RANGE</b>						
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	8/10/2004 2:02:48 AM
Motor Oil Range Organics (MRO)	ND	5.0		mg/L	1	8/10/2004 2:02:48 AM
Surr: DNOP	124	58-140		%REC	1	8/10/2004 2:02:48 AM
<b>EPA METHOD 8015B: GASOLINE RANGE</b>						
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	7/29/2004 5:15:51 PM
Surr: BFB	87.0	74-118		%REC	1	7/29/2004 5:15:51 PM
<b>EPA METHOD 8260B: VOLATILES</b>						
Benzene	ND	1.0		µg/L	1	7/26/2004
Toluene	ND	1.0		µg/L	1	7/26/2004
Ethylbenzene	ND	1.0		µg/L	1	7/26/2004
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	7/26/2004
Naphthalene	ND	2.0		µg/L	1	7/26/2004
1-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
2-Methylnaphthalene	ND	4.0		µg/L	1	7/26/2004
Acetone	ND	10		µg/L	1	7/26/2004
Bromobenzene	ND	1.0		µg/L	1	7/26/2004
Bromochloromethane	ND	1.0		µg/L	1	7/26/2004
Bromodichloromethane	ND	1.0		µg/L	1	7/26/2004
Bromoform	ND	1.0		µg/L	1	7/26/2004
Bromomethane	ND	2.0		µg/L	1	7/26/2004
2-Butanone	ND	10		µg/L	1	7/26/2004
Carbon disulfide	ND	10		µg/L	1	7/26/2004
Carbon Tetrachloride	ND	1.0		µg/L	1	7/26/2004
Chlorobenzene	ND	1.0		µg/L	1	7/26/2004
Chloroethane	ND	2.0		µg/L	1	7/26/2004
Chloroform	ND	1.0		µg/L	1	7/26/2004
Chloromethane	ND	1.0		µg/L	1	7/26/2004
2-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
4-Chlorotoluene	ND	1.0		µg/L	1	7/26/2004
cis-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	7/26/2004
Dibromochloromethane	ND	1.0		µg/L	1	7/26/2004
Dibromomethane	ND	2.0		µg/L	1	7/26/2004
1,2-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,3-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

10 / 23

Page 10 of 11

# Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**CLIENT:** AMEC  
**Lab Order:** 0407265  
**Project:** ABQ Arena  
**Lab ID:** 0407265-04

**Client Sample ID:** TRIP BLANK

**Collection Date:**

**Matrix:** TRIP BLANK

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,4-Dichlorobenzene	ND	1.0		µg/L	1	7/26/2004
Dichlorodifluoromethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloroethene	ND	1.0		µg/L	1	7/26/2004
1,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,3-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
2,2-Dichloropropane	ND	1.0		µg/L	1	7/26/2004
1,1-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
Hexachlorobutadiene	ND	1.0		µg/L	1	7/26/2004
2-Hexanone	ND	10		µg/L	1	7/26/2004
Isopropylbenzene	ND	1.0		µg/L	1	7/26/2004
4-Isopropyltoluene	ND	1.0		µg/L	1	7/26/2004
4-Methyl-2-pentanone	ND	10		µg/L	1	7/26/2004
Methylene Chloride	ND	3.0		µg/L	1	7/26/2004
n-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
n-Propylbenzene	ND	1.0		µg/L	1	7/26/2004
sec-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
Styrene	ND	1.0		µg/L	1	7/26/2004
tert-Butylbenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2,2-Tetrachloroethane	ND	1.0		µg/L	1	7/26/2004
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	7/26/2004
trans-1,2-DCE	ND	1.0		µg/L	1	7/26/2004
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	7/26/2004
1,1,1-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
1,1,2-Trichloroethane	ND	1.0		µg/L	1	7/26/2004
Trichloroethene (TCE)	ND	1.0		µg/L	1	7/26/2004
Trichlorofluoromethane	ND	1.0		µg/L	1	7/26/2004
1,2,3-Trichloropropane	ND	2.0		µg/L	1	7/26/2004
Vinyl chloride	ND	1.0		µg/L	1	7/26/2004
Xylenes, Total	ND	1.0		µg/L	1	7/26/2004
Surr: 1,2-Dichloroethane-d4	99.7	70.6-124		%REC	1	7/26/2004
Surr: 4-Bromofluorobenzene	90.8	76.4-130		%REC	1	7/26/2004
Surr: Dibromofluoromethane	104	67.2-131		%REC	1	7/26/2004
Surr: Toluene-d8	96.1	82.1-123		%REC	1	7/26/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit

S - Spike Recovery outside accepted recovery limits

J - Analyte detected below quantitation limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**QC SUMMARY REPORT**

Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407265  
**Project:** ABQ Arena

Sample ID	Batch ID	Test Code	Units	Analysis Date 8/9/2004 10:57:53 PM			Prep Date				
Client ID:	Run ID:	FID(17A) 2_040809A	mg/L	Seq No: 2955339							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.197	0	1	0	0	120	58	140	0	0	
Sample ID	Batch ID	Test Code	Units	Analysis Date 8/11/2004 6:38:11 PM			Prep Date				
Client ID:	Run ID:	FID(17A) 2_040810A	mg/L	Seq No: 296078							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	1									
Motor Oil Range Organics (MRO)	ND	5									
Surr: DNOP	1.204	0	1	0	0	120	58	140	0	0	
Sample ID	Batch ID	Test Code	Units	Analysis Date 7/29/2004 9:17:46 AM			Prep Date				
Client ID:	Run ID:	PIDFID_040729A	mg/L	Seq No: 291606							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	0.05									
Surr: BFB	17.5	0	20	0	87.5	74	118	0	0	0	

12 / 23

**Qualifiers:**

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

CLIENT: AMEC  
 Work Order: 0407265  
 Project: ABQ Arena

Sample ID	MB-6209	Batch ID:	6209	Test Code:	SW8310	Units:	µg/L	Analysis Date	8/18/2004 10:46:20 PM	Prep Date	7/29/2004	
Client ID:		Run ID:	HUGO_040818A <th>SeqNo:</th> <td>297672</td> <th>%REC</th> <td></td> <th>LowLimit</th> <td></td> <th>HighLimit</th> <td></td> <th>%RPD</th>	SeqNo:	297672	%REC		LowLimit		HighLimit		%RPD
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC		RPD Ref Val		RPD Limit		Qual
Naphthalene	ND	2.5										
1-Methylnaphthalene	ND	2.5										
2-Methylnaphthalene	ND	2.5										
Acenaphthylene	ND	2.5										
Acenaphthene	ND	2.5										
Fluorene	ND	0.8										
Phenanthrene	ND	0.6										
Anthracene	ND	0.6										
Fluoranthene	ND	0.3										
Pyrene	ND	0.3										
Benz(a)anthracene	ND	0.02										
Chrysene	ND	0.2										
Benzo(b)fluoranthene	ND	0.05										
Benzo(k)fluoranthene	ND	0.02										
Benzo(a)pyrene	ND	0.02										
Dibenz(a,h)anthracene	ND	0.08										
Benzo(g,h,i)perylene	ND	0.03										
Indeno(1,2,3-cd)pyrene	ND	0.08										
Surrogate: Benzo(e)pyrene	8.5	0										

13 / 23

Qualifiers: ND - Not Detected at the Reporting Limit  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## Hall Environmental Analysis Laboratory

Date: 19-Aug-04

## QC SUMMARY REPORT

Method Blank

CLIENT: AMEC  
 Work Order: 0407265  
 Project: ABQ Arena

Sample ID	5ml rb	Batch ID:	R12555	Test Code:	SW8260B	Units:	µg/L	Analysis Date: 7/26/2004			Prep Date			
Client ID:				Run ID:	VAL_040726A <th></th> <th></th> <th>Set No:</th> <td>290638</td> <td></td> <td></td>			Set No:	290638					
Analyte				Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene				ND	1									
Toluene				ND	1									
Ethylbenzene				ND	1									
Methyl tert-butyl ether (MTBE)				ND	1									
1,2,4-Trimethylbenzene				ND	1									
1,3,5-Trimethylbenzene				ND	1									
1,2-Dichloroethane (EDC)				ND	1									
1,2-Dibromoethane (EDB)				ND	2									
Naphthalene				ND	4									
1-Methylnaphthalene				ND	4									
2-Methylnaphthalene				ND	4									
Acetone				ND	10									
Bromobenzene				ND	1									
Bromo-chloromethane				ND	1									
Bromo-dichloromethane				ND	1									
Bromoform				ND	1									
Bromomethane				ND	2									
2-Butanone				ND	10									
Carbon disulfide				ND	10									
Carbon Tetrachloride				ND	1									
Chlorobenzene				ND	1									
Chloroethane				ND	2									
Chloroform				ND	1									
Chloromethane				ND	1									
2-Chlorotoluene				ND	1									
4-Chlorotoluene				ND	1									
cis-1,2-DCE				ND	1									

Qualifiers:  
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 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

CLIENT: AMEC  
Work Order: 0407265  
Project: ABQ Arena

cis-1,3-Dichloropropene	ND	1
1,2-Dibromo-3-chloropropane	ND	2
Dibromochloromethane	ND	1
Dibromomethane	ND	2
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
1,3-Dichloropropane	ND	1
2,2-Dichloropropane	ND	1
1,1-Dichloropropene	ND	1
Hexachlorobutadiene	ND	1
2-Hexanone	ND	10
Isopropylbenzene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
1,1,1,2-Tetrachloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene (PCE)	ND	1
trans-1,2-DCE	ND	1
trans-1,3-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,4-Trichlorobenzene	ND	1
1,1-Trichloroethane	ND	1

Qualifiers:  
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R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

## QC SUMMARY REPORT

## Method Blank

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limit

S - Spike Recovery outside accepted recovery limits

B - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

CLIENT: AMEC  
 Work Order: 0407265  
 Project: ABQ Arena

Sample ID: 5ml rb Batch ID: R12560 Test Code: SW8260B Units: µg/L Analysis Date: 7/26/2004 Prep Date:

Client ID: Run ID: THOR\_040726A SeqNo: 290808

Analyte Analyte Result PQL SPK value %REC Lowlimit Highlimit RPD Ref Val %RRPD RPD Limit Qual

Sample ID	5ml rb	Batch ID:	R12560	Test Code:	SW8260B	Units:	µg/L	Analysis Date	7/26/2004	Prep Date
Client ID:				Run ID:	THOR_040726A			SeqNo:	290808	
Analyte						%REC				
Benzene				ND	1					
Toluene				ND	1					
Ethylbenzene				ND	1					
Methyl tert-butyl ether (MTBE)				ND	1					
1,2,4-Trimethylbenzene				ND	1					
1,3,5-Trimethylbenzene				ND	1					
1,2-Dichloroethane (EDC)				ND	1					
1,2-Dibromoethane (EDB)				ND	1					
Naphthalene				ND	2					
1-Methylnaphthalene				ND	4					
2-Methylnaphthalene				ND	4					
Acetone				ND	10					
Bromobenzene				ND	1					
Bromochloromethane				ND	1					
Bromodichloromethane				ND	1					
Bromoform				ND	1					
Bromomethane				ND	2					
2-Butanone				ND	10					
Carbon disulfide				ND	10					
Carbon Tetrachloride				ND	1					
Chlorobenzene				ND	1					
Chloroethane				ND	2					
Chloroform				ND	1					
Chloromethane				ND	1					
2-Chlorotoluene				ND	1					
4-Chlorotoluene				ND	1					
cis-1,2-DCE				ND	1					
cis-1,3-Dichloropropene				ND	1					

Qualifiers:

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# QC SUMMARY REPORT

Method Blank

**CLIENT:** AMEC  
**Work Order:** 0407265  
**Project:** ABQ Arena

18 / 23

1,2-Dibromo-3-chloropropane	ND	2
Dibromochloromethane	ND	1
Dibromomethane	ND	2
1,2-Dichlorobenzene	ND	1
1,3-Dichlorobenzene	ND	1
1,4-Dichlorobenzene	ND	1
Dichlorodifluoromethane	ND	1
1,1-Dichloroethane	ND	1
1,1-Dichloroethene	ND	1
1,2-Dichloropropane	ND	1
1,3-Dichloropropane	ND	1
2,2-Dichloropropane	ND	1
1,1-Dichloropropene	ND	1
Hexachlorobutadiene	ND	1
2-Hexanone	ND	10
Isopropylbenzene	ND	1
4-Isopropyltoluene	ND	1
4-Methyl-2-pentanone	ND	10
Methylene Chloride	ND	3
n-Butylbenzene	ND	1
n-Propylbenzene	ND	1
sec-Butylbenzene	ND	1
Styrene	ND	1
tert-Butylbenzene	ND	1
1,1,1,2-Tetrachloroethane	ND	1
1,1,2,2-Tetrachloroethane	ND	1
Tetrachloroethene (PCE)	ND	1
trans-1,2-DCE	ND	1
trans-1,3-Dichloropropene	ND	1
1,2,3-Trichlorobenzene	ND	1
1,2,4-Trichlorobenzene	ND	1
1,1,1-Trichloroethane	ND	1
1,1,2-Trichloroethane	ND	1

**Qualifiers:**  
 ND - Not Detected at the Reporting Limit  
 S - Spike Recovery outside accepted recovery limits  
 R - RPD outside accepted recovery limits  
 J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

J - Analyte detected in the associated Method Blank

# QC SUMMARY REPORT

Method Blank

CLIENT:	AMEC
Work Order:	0407265
Project:	ABQ Arena
Trichloroethene (TCE)	ND
Trichlorofluoromethane	ND
1,2,3-Trichloropropane	ND
Vinyl chloride	ND
Xylenes, Total	ND
Surr: 1,2-Dichloroethane-d4	9.9
Surr: 4-Bromofluorobenzene	11.19
Surr: Dibromofluoromethane	10.13
Surr: Toluene-d8	9.966

1  
1  
2  
1  
1  
10  
0  
10  
0  
10  
0  
10  
0  
10  
0  
99.0  
0  
10  
0  
10  
0  
10  
0  
99.7

127  
0  
126  
0  
126  
0  
126  
0  
129

68.4  
70.4  
112  
101  
70.2  
73.5

127  
126  
126  
126  
129

0  
0  
0  
0  
0

Qualifiers:

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B - Analyte detected in the associated Method Blank

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J - Analyte detected below quantitation limits

Hall Environmental Analysis Laboratory

Date: 19-Aug-04

**QC SUMMARY REPORT**  
Laboratory Control Spike Duplicate  
Project:

CLIENT: AMEC  
Work Order: 0407265  
Project: ABQ Arena

Sample ID	Batch ID	Test ID	Test Code	Units	mg/L		Analysis Date	8/9/2004 11:59:08 PM		Prep Date	8/2/2004	
Client ID:			Run ID:	FID(17A) 2_040809A			SeqNo:	295362				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	4.32	Result	PQL	1	5	0	86.4	81.2	149	3.953	8.87	23
Sample ID	LCS-6224	Batch ID:	6224	Test Code:	SW8015	Units: mg/L		Analysis Date	8/11/2004 7:09:31 PM		Prep Date	8/2/2004
Client ID:				Run ID:	FID(17A) 2_040810A		SeqNo:	296079				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	5.274	Result	PQL	1	5	0	105	81.2	149	0	0	
Sample ID	GRO std 2.5ug	Batch ID:	R12596	Test Code:	SW8015	Units: mg/L		Analysis Date	7/30/2004 5:26:30 AM		Prep Date	
Client ID:				Run ID:	PIDFID_040729A		SeqNo:	291607				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4766	Result	PQL	0.05	0.5	0	95.3	80.3	116	0	0	
Sample ID	0407265-02a msd	Batch ID:	R12596	Test Code:	SW8015	Units: mg/L		Analysis Date	7/29/2004 5:46:26 PM		Prep Date	
Client ID:				Run ID:	PIDFID_040729A		SeqNo:	291674				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.4868	Result	PQL	0.05	0.5	0	97.4	80.3	116	0	0	
Sample ID	0407265-02a msd	Batch ID:	R12596	Test Code:	SW8015	Units: mg/L		Analysis Date	7/29/2004 6:17:05 PM		Prep Date	
Client ID:				Run ID:	PIDFID_040729A		SeqNo:	291675				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	0.502	Result	PQL	0.05	0.5	0	100	80.3	116	0.4766	5.19	8.39

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# QC SUMMARY REPORT

Laboratory Control Spike - generic

**CLIENT:** AMEC

0407265

**Work Order:** ABQ Arena

**Project:**

**Sample ID:** 100ng Ics

**Batch ID:** R12555

**Test Code:** SW8260B

**Units:** µg/L

**Analysis Date:** 7/26/2004

**SeqNo:** 290639

**Prep Date:**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	17.51	1	20	0	87.5	75.3	128	0	0	0	
Toluene	17.99	1	20	0	90.0	87.7	122	0	0	0	
Chlorobenzene	19.09	1	20	0	96.5	76.2	130	0	0	0	
1,1-Dichloroethene	17.69	1	20	0	88.5	70.7	122	0	0	0	
Trichloroethene (TCE)	18.95	1	20	0	94.7	76.9	130	0	0	0	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPD Limit	Qual
Benzene	20	1	20	0	100	75.3	128	0	0	0	
Toluene	19.65	1	20	0	98.3	87.7	122	0	0	0	
Chlorobenzene	18.24	1	20	0	91.2	76.2	130	0	0	0	
1,1-Dichloroethene	20.19	1	20	0	101	70.7	122	0	0	0	
Trichloroethene (TCE)	20.79	1	20	0	104	76.9	130	0	0	0	

**Qualifiers:**

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# QC SUMMARY REPORT

Laboratory Control Spike - generic

**CLIENT:** AMEC  
**Work Order:** 0407265  
**Project:** ABQ Arena

Sample ID: LCS-6209	Batch ID: 6209	Test Code: SW8310	Units: µg/L	Analysis Date 8/18/2004 11:34:18 PM			Prep Date 7/29/2004		
Client ID:		Run ID: HUGO_040818A		SeqNo:	297673		%RPD	RPDI/limit	Qual
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	
Naphthalene	28.44	2.5	40	0	71.1	20.939	111.211	0	
1-Methylnaphthalene	29.54	2.5	40.1	0	73.7	22.016	110.385	0	
2-Methylnaphthalene	28.92	2.5	40	0	72.3	21.098	111.261	0	
Acenaphthylene	30.52	2.5	40.1	0	76.1	23.852	116.857	0	
Acenaphthene	30.76	2.5	40	0	76.9	27.524	111.73	0	
Fluorene	3.08	0.8	4.01	0	76.8	31.046	113.32	0	
Phenanthrene	1.68	0.6	2.01	0	83.6	42.279	115.749	0	
Anthracene	1.63	0.6	2.01	0	81.1	43.767	118.693	0	
Fluoranthene	3.39	0.3	4.01	0	84.5	55.334	117.461	0	
Pyrene	3.41	0.3	4.01	0	85.0	57.722	120.832	0	
Benz(a)anthracene	0.33	0.02	0.401	0	82.3	70.18	113.452	0	
Chrysene	1.65	0.2	2.01	0	82.1	43.942	141.404	0	
Benz(b)fluoranthene	0.31	0.05	0.38	0	81.6	71.192	103.368	0	
Benzo(k)fluoranthene	0.21	0.02	0.25	0	84.0	75.336	107.209	0	
Benzo(a)pyrene	0.2	0.02	0.251	0	79.7	74.556	100.742	0	
Dibenz(a,h)anthracene	0.43	0.08	0.501	0	85.8	80.693	106.931	0	
Benz(g,h,i)perylene	0.43	0.03	0.5	0	86.0	55.168	135.014	0	
Indeno(1,2,3-cd)pyrene	0.828	0.08	1.002	0	82.6	79.328	104.794	0	

22 / 23

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# Hall Environmental Analysis Laboratory

## Sample Receipt Checklist

Client Name AMEC

Date and Time Received:

7/26/2004

Work Order Number 0407265

Received by AMG

Checklist completed by

*Okonyala* 07/26/04

Signature

Date

Matrix	Carrier name	<u>Client drop-off</u>		
Shipping container/cooler in good condition?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/>
Custody seals intact on shipping container/cooler?		Yes <input type="checkbox"/>	No <input type="checkbox"/>	Not Present <input type="checkbox"/> Not Shipped <input checked="" type="checkbox"/>
Custody seals intact on sample bottles?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	N/A <input type="checkbox"/>
Chain of custody present?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody signed when relinquished and received?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Chain of custody agrees with sample labels?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper container/bottle?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers' intact?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
All samples received within holding time?		Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - VOA vials have zero headspace?	No VOA vials submitted <input type="checkbox"/>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Water - pH acceptable upon receipt?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	N/A <input checked="" type="checkbox"/>	
Container/Temp Blank temperature?	6°	4° C ± 2 Acceptable If given sufficient time to cool.		

### COMMENTS:

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Client contacted \_\_\_\_\_ Date contacted: \_\_\_\_\_ Person contacted: \_\_\_\_\_

Contacted by: \_\_\_\_\_ Regarding: \_\_\_\_\_

Comments: \_\_\_\_\_

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Corrective Action: \_\_\_\_\_

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