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Technical Change to the Work Plan for the Remedial Investigation of the Salmon Site, Lamar County, Mississippi:

Sampling and Analysis Plan Background Soil and Groundwater Study

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Revision: 0

April 1998

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Environmental Restoration
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U.S. Department of Energy
Nevada Operations Office

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**TECHNICAL CHANGE TO THE WORK PLAN
FOR THE REMEDIAL INVESTIGATION OF
THE SALMON SITE, LAMAR COUNTY, MISSISSIPPI:**

**SAMPLING AND ANALYSIS PLAN
BACKGROUND SOIL AND GROUNDWATER STUDY**

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THE SALMON SITE, LAMAR COUNTY, MISSISSIPPI:**

**SAMPLING AND ANALYSIS PLAN
BACKGROUND SOIL AND GROUNDWATER STUDY**

Approved by:

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Date:

4/9/98

Approved by:

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Nevada Environmental Restoration Project

Date:

4/9/98

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List of Acronyms and Abbreviations

CLP	Contract Laboratory Program
COPC	Constituents of potential concern(s)
DOE/NV	U.S. Department of Energy, Nevada Operations Office
EPA	U.S. Environmental Protection Agency
FADL	Field Activity Daily Log
ft	Foot (feet)
IDL	Instrument Detection Limit
ITLV	IT Corporation, Las Vegas
m	Meter(s)
MS	Matrix Spike
pCi/g	Picocurie(s) per gram
PPE	Personal protective equipment
QA/QC	Quality assurance/quality control
RPD	Relative percent difference
SOW	Statement of Work
SQP	Standard Quality Practice(s)
TAL	Target Analyte List

1.0 Introduction

This document details technical changes to the existing work plan for the remedial investigation of the Salmon Site (formerly Tatum Dome Test Site) (DOE, 1992). A previously conducted Remedial Investigation for the Salmon Site involved the preparation of ecological and human health risk assessments. These risk assessments, which are incorporated into the Remedial Investigation Report, identified several constituents of potential concern (COPC) that could potentially have a negative impact on ecological and human health. These COPC are the primary risk drivers for the Salmon Site, they include arsenic and naturally occurring, gamma-emitting radionuclides. If it can be demonstrated that similar concentrations of these COPCs occur naturally in surrounding areas, they can be removed from consideration in the risk assessments.

The purpose of this sampling effort is to collect enough data to prove that the COPCs are naturally occurring and are not a result of the explosives testing activities conducted at the site. This will be accomplished by collecting enough soil samples to have a statistically valid population that can be used to produce defensible comparisons that prove the concentrations identified on site are the same as the background concentrations in surrounding areas.

2.0 Project Description and Location

The Salmon Site, formerly known as the Tatum Dome Test Site, is located in south-central Mississippi, southwest of the city of Hattiesburg, in Lamar County (Figure 2-1). Between 1964 and 1970, two nuclear and two non-nuclear gas explosions were conducted deep underground in the Tatum Salt Dome beneath the site. The tests were performed as part of the former U.S. Atomic Energy Commission's Vela Uniform Program which was conducted to improve the United States' capability to detect underground nuclear explosions (DOE, 1992). The Salmon Site is currently managed by the U.S. Department of Energy, Nevada Operations Office (DOE/NV).

Figure 2-1
Location Map of Salmon Site

3.0 Project Organization

This section defines the roles and responsibilities and chain of command for the sampling team. The team will consist of a Project Manager, a Site Manager, a Task Leader, and the field staff.

Site Manager

The Site Manager will serve as the on-site manager, will coordinate the soil and groundwater sampling activities, and will manage the overall technical execution of the scope of work. Additional responsibilities will include regular reporting of project status and progress; and ensuring compliance with all health and safety requirements, quality assurance/quality control (QA/QC) procedures, and waste management requirements. The Site Manager will coordinate work assignments for all on-site staff and will serve as the primary point of contact for state regulators, as approved by the DOE/NV.

The Site Manager will report to the IT Project Manager, the Task Leader will report to the Site Manager, and the field staff will report directly to the Task Leader.

Task Leader

The Task Leader will coordinate all work activities with the Site Manager and will be responsible for directing the field staff in order to execute the specified work scope in accordance with the approved Work Plan. The Task Leader will regularly report to the Site Manager on the status and progress of specified activities.

Field Staff

The Field Staff will execute the tasks assigned to them by the Task Leader. Assigned tasks will include collecting soil samples, collecting groundwater samples, shipping the samples to an off-site laboratory for analysis, following waste management requirements, conducting all activities in accordance with the health and safety and QA/QC requirements, and conducting data management. Field Staff may be assigned additional responsibilities by the Site Manager as needed to facilitate completion of the work scope.

3.1 Documentation and Standard Quality Practices

All activities will be carried out in accordance with IT Corporation, Las Vegas (ITLV) Standard Quality Practices (SQPs), Site-Specific Work Plans, and Health and Safety Plans. These documents are listed in Table 3-1.

Table 3-1
Applicable Procedures and Other Relevant Documents

Standard Quality Practices		
Procedure	Title	Revision
ITLV-0401	Field Activities Documentation	2
ITLV-0402	Chain of Custody	3
ITLV-0403	Sample Handling, Packaging, and Shipping	3
ITLV-0404	Collection of Field Quality Control Samples	1
ITLV-0405	Sampling Equipment Decontamination	3
ITLV-0425	Measuring and Testing Equipment Calibration and Control	0
ITLV-0453	Field Mapping with a Global Positioning System	0
ITLV-0527	Data Validation for Inorganic Samples	0
ITLV-0529	Tier I Data Review - Deliverables Inventory Review	0
ITLV-0530	Tier II Data Review - Data Verification	0
ITLV-0600	Surface Soil Sampling	0
ITLV-0601	Shallow Subsurface Soil Sampling with Hand Auger and Coring Device	0
ITLV-0604	Soil Sample Compositing	1
ITLV-0623	Groundwater Monitoring Well Purging and Sampling	0
Safety Plans		
Site-Specific Health and Safety Plan for the Salmon Site (April 1998)		
Nevada Environmental Restoration Project, Health and Safety Plan (1994)		

4.0 Sample Collection

4.1 Soil Samples

Soil samples will be collected from the six locations indicated in Figure 4-1. These samples will be collected in the following manner. A stake will be placed at the sampling point; this sample point will be designated "A." Additional sample points will then be established at distances of 30 meters (m) (100 feet [ft]) from "A" in each of the cardinal compass directions. From north, rotating to the west, these will be designated "B," "C," "D," and "E." Prior to collecting the sample, the sample team will remove all of the leaf litter and organic material to expose the surface soil. Samples will be collected from each of these five locations. Using a soil auger, the samples will be taken from the surface to a depth of approximately 30 centimeters (12 inches), in accordance with SQP ITLV-0600, "Surface Soil Sampling." At location "A," two additional samples will be collected, one from a depth of 0.6 m (2 ft) (intermediate) and one from a depth of 1.2 m (4 ft) (deep). These samples will be collected in accordance with SQP ITLV-0601, "Shallow Subsurface Soil Sampling with Hand Auger and Coring Device." Samples will be mixed thoroughly in stainless steel bowls and mixed thoroughly prior to filling the sample containers in accordance with SQP ITLV-0604, "Soil Sampling Compositing." Table 4-1 summarizes the sample locations and the required samples from each of the locations.

Following sample collection at each location, sampling equipment will be decontaminated in accordance with SQP ITLV-0405, "Sampling Equipment Decontamination for Inorganic Sample Collection." The procedure will be as follows:

- Remove solid particles from the equipment or material by brushing then rinsing with tap water.
- Wash and scrub equipment with laboratory grade detergent. Rinse at least three times with tap water.
- Rinse plastic or Teflon® with a 10 percent nitric acid solution. Rinse stainless steel with a one percent hydrochloric acid solution.
- Rinse thoroughly with deionized, analyte-free water.
- Air dry.

FIGURE 4-1

SAMPLE LOCATIONS

Table 4-1
Summary of Soil Sample Collection Locations, Depths,
Geological Unit, and Quality Control Samples

Sample Location/Designation		Sample Depth	Geological Unit	Quality Control Samples
OS-P1	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Pascagoula/Hattiesburg	
		B-E: 0-12"		
OS-P2	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Half Moon Creek	
		B-E: 0-12"		
OS-P3	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Citronelle	Dup. ^a RB ^b , MS ^c
		B-E: 0-12"		
OS-P4	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Pascagoula/Hattiesburg	
		B-E: 0-12"		
OS-P5	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Half Moon Creek	Dup. RB, MS
		B-E: 0-12"		
OS-P6	A, B, C, D, E	A: 0-12", 18-30" 42-54"	Citronelle	
		B-E: 0-12"		

^aField duplicate

^bRinse blank

^cMatrix spike

- Wrap equipment in heavy-duty plastic sheeting or bags or aluminum foil.
- Repeat the decontamination procedure prior to and between each sample collection location to avoid positive, negative, and cross contamination.

Samples will be collected, handled, packaged, and shipped in accordance with SQPs ITLV-0401, "Field Activities Documentation," ITLV-0402, "Chain of Custody," ITLV-0403, "Sampling Handling, Packaging, and Shipping," and ITLV-0404, "Collection of Field Quality Control Samples." The requested analyses will be for those listed in Table 5-1.

4.2 Groundwater Samples

Groundwater samples will be collected, where possible, in conjunction with the U.S. Environmental Protection Agency's (EPA) annual sampling event. The proposed wells and an alternate location are listed in Table 4-2. These wells were chosen in order to provide water samples from aquifers that are stratigraphically similar to the local aquifer identified under the Salmon Site.

Table 4-2
Summary of Groundwater Sample Collection Locations

Well Name	Approximate Depth (feet below ground surface)
A.C. Mills	365
Helen Oglisby (formerly Rita Moree)	268
Salt Dome Timber Co.	120
Billy Hibley	259
Levi Bryant	250
Baxterville City Well	290
Hunt Club	135

If possible, the static water level of each well will be determined and recorded in the Field Activity Daily Log (FADL). Because these are privately owned wells, there may not be an access port for collecting water level measurement. Initial water quality measurements including, at a minimum: temperature, pH, and conductivity will be taken. Samples should be collected before the water enters any treatment system (e.g., carbon filter). Prior to sampling, each well will be purged until water quality parameters have stabilized (within ± 10 percent of the previous measurements) enough to allow for two samples taken at a minimum of ten-minute intervals. Intervals for the collection of these samples is left to the discretion of the Team Leader.

Once the well has been purged and the water quality parameters have been stabilized per SQP ITLV-0623, "Groundwater Monitoring Well Purging and Sampling," the groundwater samples will be collected. Samples will be collected, handled, packaged, and shipped in accordance with SQPs ITLV-0401, "Field Activities Documentation," ITLV-0402, "Chain of

Custody," ITLV-0403, "Sampling Handling, Packaging, and Shipping," and ITLV-0404, "Collection of Field Quality Control Samples." Samples collected from each of these wells are to be analyzed for the parameters listed in Table 5-1.

The locations of the sampled wells will be documented in the field notes. This documentation will include an annotated U.S. Geological Survey topographic map and Global Positioning System coordinates recorded on the FADL and the Sample Collection Logs. All global positioning identification will be done in accordance with SQP ITLV-0453.

4.3 Quality Control Samples

Quality control samples will be collected in conjunction with sampling activities at the rate of one set of QA/QC samples per 21 samples. The following sections discuss the types of QA/QC samples that will be collected.

4.3.1 Field Duplicate

A Field Duplicate will be collected during both groundwater and soil sampling. These samples will be labeled in a manner so as to be "blind" to the laboratory. The collection time will be listed at a time later than the "real" sample. This sample will be analyzed for the parameters as specified in Table 5-1.

4.3.2 Matrix Spike

Matrix Spike (MS) samples will be collected in conjunction with the soil sample collection. The sample locations for these samples are specified in Table 4-1. Duplicate volumes shall be collected and the MS shall be labeled as such on the Request for Analysis/Chain-of-Custody.

A Matrix Spike sample will be collected in conjunction with one of the groundwater samples collected during this event. Duplicate volumes shall be collected and the MS shall be labeled as such on the Request for Analysis/Chain-of-Custody.

4.3.3 Equipment Rinse Blank

An equipment rinse blank shall be collected by pouring deionized water over decontaminated equipment in accordance with SQP ITLV-0404. This sample will be collected in conjunction with the soil sampling. No equipment rinsate blanks will be collected during the groundwater sampling.

4.3.4 Field Blanks

No field blanks are planned for this sampling event. However, if environmental conditions are such that contamination is possible (e.g., dusty conditions), then a field blank will be collected. This sample will be collected at the discretion of the Task Leader.

4.3.5 Trip Blanks

Trip blanks are not required.

5.0 Sample Analysis

Samples will be shipped to the laboratory under SQP ITLV-0403. The analytical methods, containers, preservatives, and quality assurance levels are specified in Table 5-1. Analytical Service Request forms are included in Appendix A.

**Table 5-1
 Summary of Analytical Parameters**

Matrix	Analysis	Method	Container	Preservative	Quality Assurance Level
Water	metals	SW846-7060A	1 liter HDPE ^a	HNO ₃ ^b	Per analytical services request form
Soil	metals	ILM03.0	8 ounce glass	none/ice	
	gamma	HASL-300	8 ounce glass	none	

^aHigh Density Polyethylene

^bNitric acid

5.1 Requested Analyses Soils

All soil samples will be analyzed for radionuclides and metals by the methods indicated in Table 5-1.

5.2 Requested Analyses Groundwater

All groundwater samples will be analyzed for metals by the methods indicated in Table 5-1.

5.3 Laboratory

The samples will be shipped to the laboratory that will have been identified prior to the commencement of field activities.

6.0 Waste Management

It is anticipated that none of the investigation-derived wastes will require management as anything other than sanitary waste (i.e., no radioactive, hydrocarbon, or hazardous waste is expected to be generated). This presumption is based on the fact that the samples will be collected from areas on the perimeter of the site and not from areas involved in previous site activities. However, in order to ensure proper characterization of the waste, all waste streams shall be managed in the appropriate containers, pending the receipt of background sample results.

6.1 Waste Types and Containers

The types of waste that are anticipated to be generated during background soil and groundwater sampling are personal protective equipment (PPE), disposable sampling equipment, and decontamination rinsate.

Solid Waste

Solid wastes (i.e., PPE and disposable sampling equipment) shall be segregated on a well-by-well basis and/or by sampling location. The PPE/debris shall be collected in bags and marked with the well designation/sample location and date of generation. Multiple bags may be accumulated in a single drum. Drums shall be numbered and tracked on the Salmon Site Waste Drum Index.

Liquid Waste

Liquid waste (i.e., decontamination fluid) may be collected in lined steel drums or in a frac tank. It is not necessary to segregate rinsates collected from different locations. Drums shall be numbered and tracked on the Salmon Site Waste Drum Index. If a frac tank is used to contain decontamination rinsate, a sample shall be collected from the tank once sampling activities have ceased. This sample shall be analyzed for the same parameters as the samples associated with the rinsate.

At the completion of every work day, any drums containing waste from the sampling event shall be locked or fitted with a Tamper-Indicating Device. When the field staff demobilizes from the site, all drums must be moved inside the fenced investigation-derived waste accumulation area.

6.2 Waste Characterization and Disposal

Wastes will be characterized based on the analytical results of the samples associated with the generation of the waste. Direct waste characterization samples of the solid waste will not be collected. These wastes shall be associated with the appropriate groundwater or background soil samples. If a frac tank is used to containerize the rinsate, a sample shall be taken directly from the tank to characterize its contents. If drums are used, the Site Manager will determine whether or not direct samples shall be collected from the drums. If direct sampling of the liquid wastes is not conducted, all the analytical results obtained during the sampling event will be used to characterize the rinsate.

Waste disposal options shall be decided after the analytical results are received. On-site disposal of the decontamination rinsate is an option if the concentrations of particular analytes do not exceed the action levels as defined below. On-site disposal is not an option for the solid waste; this waste will be transported off site to a disposal facility. In the event that the waste is determined to be hazardous, it will be transported off site to a permitted treatment or disposal facility.

Analytical results will be compared to the *Safe Drinking Water Act* Maximum Contaminant Levels and the EPA Region III Risk-Based Concentration Table to determine if on-site disposal is an option. The analytical results from the soil samples will be compared to the EPA Region III Risk-Based Concentration Table to determine if on-site disposal is an option.

7.0 Health and Safety

All of the activities outlined in this Sampling and Analysis Plan will be conducted in accordance with an approved Site-Specific Health and Safety Plan.

8.0 Data Analysis/Data Management

When the analytical results are received from the laboratory, they will undergo Tier I and Tier II reviews, in accordance with SQPs ITLV-0527, 0529, and 0530.

9.0 Required Reports

A formal report is not required upon completion of this sampling project. However, completion of the project will be documented in memorandum form. The memorandum will include:

- Descriptions of activities
- A list of samples collected along with maps
- Exceptions and occurrences
- Summary tables of the results

The data will be used to support the Feasibility Study Report.

10.0 References

U.S. Department of Energy. 1992. *Remedial Investigation and Feasibility Study of the Tatum Dome Test Site, Lamar County, Mississippi*, Volume 1, Final Work Plan.
Las Vegas, Nevada: Nevada Operations Office.

Appendix A

Analytical Services Request Forms

IT Corporation
P.O. Box 93838
Las Vegas, Nevada 891193-3838
Phone: (702) 295-2033, Fax: (702) 295-2025

OFFSITES PROJECTS
ANALYTICAL SERVICES REQUEST FORM

- A. Prepared By: Bryan Cherry
- B. Date of Request: March 30, 1998
- C. Request Form: 1 of 3
- D. Site Name: Salmon Site
- E. Project Number: 772865.01050000

1. General description of analytical service requested and number of work units involved:

Forty-four (44) soil samples will be submitted for analysis for Target Analyte List (TAL) inorganics (excluding cyanide) using the U.S. Environmental Protection Agency (EPA) Contract Laboratory Program (CLP) Statement of Work (SOW) for Inorganics Analysis, Multi-Media, Multi-Concentration (ILM03.0) or equivalent method approved by the Project.

See additional request forms for other analytical requirements.

2. Purpose of analysis (site characterization, cleanup verification, routine monitoring, etc.):

The samples will be collected for site characterization purposes.

3. Estimated date(s) of collection and shipment:

The samples will be collected and shipped to the laboratory via Federal Express during the week of April 20, 1998.

4. Number of days analysis and data required after laboratory receipt of samples:

The laboratory shall provide Certificates of Analysis within 30 days of receipt of the samples. The analytical data packages for the samples shall be delivered within 35 days of receipt of the last samples.

5. Analytical method required (attach copy if not a standard method):

The samples will be analyzed for inorganics (excluding cyanide) using the EPA CLP SOW for Inorganics Analysis, Multi-Media, Multi-Concentration (ILM03.0) or equivalent method approved by the Project.

6. Special technical instructions (if outside method requirements, specify compound names, CAS numbers, detection limits, etc.):

None

7. Analytical deliverables required (i.e., certificates of analyses, analytical data packages, etc.):

- Certificates of Analysis
- All analytical data deliverables required under the CLP SOW
- Electronic data transfer

8. Third Party data validation required:

Yes

9. Other requirements:

None

**10. Name of sampling/shipping contact: Kurt Schmidt, IT Las Vegas
Phone: (702) 295-2594**

11. Data Requirements:

<u>Parameter</u>	<u>Quantitation Limit</u>	<u>Precision Accuracy</u>
TAL Inorganics	IDLs*	Per CLP SOW

* Instrument detection limits for the TAL inorganics shall be no greater than the CLP CRDLs .

12. QC Requirements:

<u>Audits Required</u>	<u>Frequency of Audits</u>	<u>Limits</u>
Blanks	Per CLP SOW	Per CLP SOW
MS	Per CLP SOW	Per CLP SOW
All other QC	Per CLP SOW	Per CLP SOW

13. Technical Contact:

Call: Chip Bartholomay at (702) 295-2051 or Debbie Krogbin at (702) 295-2409 for technical issue resolution.

IT Corporation
P.O. Box 93838
Las Vegas, Nevada 891193-3838
Phone: (702) 295-2033, Fax: (702) 295-2025

OFFSITES PROJECTS
ANALYTICAL SERVICES REQUEST FORM

- A. Prepared By: Bryan Cherry
- B. Date of Request: March 30, 1998
- C. Request Form: 2 of 3
- D. Site Name: Salmon Site
- E. Project Number: 772865.01050000

1. General description of analytical service requested and number of work units involved:

Forty-four (44) soil samples will be submitted to the laboratory for analysis for gamma-emitting radionuclides using Method 4.5.2.3 in the U.S. Department of Energy's *Environmental Measurements Procedures Manual*, HASL-300, or equivalent method approved by the Project.

See additional request forms for other analytical requirements

2. Purpose of analysis (site characterization, cleanup verification, routine monitoring, etc.):

The samples will be collected for characterization purposes.

3. Estimated date(s) of collection and shipment:

The samples will be collected and shipped to the laboratory via Federal Express during the week of April 20, 1998.

4. Number of days analysis and data required after laboratory receipt of samples:

The laboratory shall provide Certificates of Analysis within 30 days of receipt of the samples. The analytical data packages for all samples shall be delivered within 35 days of receipt of the last sample.

5. Analytical method required (attach copy if not a standard method):

The samples will be analyzed for gamma-emitting radionuclides using HASL-300 4.5.2.3.

6. Special technical instructions (if outside method requirements, specify compound names, CAS numbers, detection limits, etc.):

In addition to the detected gamma-emitting radionuclides, the laboratory shall include on all of the Certificates of Analysis the results for the following isotopes, regardless of whether they are detected or not:

Thorium-234	Actinium-228
Radium-226	Lead-212
Lead-214	Bismuth-212
Bismuth-214	Thallium-208
Lead-210	Cesium-137
Uranium-235	Potassium-40

7. Analytical deliverables required (i.e., certificates of analyses, analytical data packages, etc.):

- Certificates of Analysis
- All analytical raw data supporting the analyses
- Electronic data transfer

8. Third Party data validation required:

Yes

9. Other requirements:

None

**10. Name of sampling/shipping contact: Kurt Schmidt, IT Las Vegas
Phone: (702) 295-2594**

11. Data Requirements:

<u>Parameter</u>	<u>Quantitation Limit</u>	<u>Precision Accuracy</u>
Gamma-emitters	1 pCi/g	± 20% RPD 80%-120% R

12. QC Requirements:

<u>Audits Required</u>	<u>Frequency of Audits</u>	<u>Limits</u>
Blanks	1 every 12 hours	< MDAs
Spike Samples	1 per 20 samples	± 20% RPD 80%-120% R
All other QC	Per HASL-300 4.5.2.3	

13. Technical Contact:

Call: Chip Bartholomay at (702) 295-2051 or Debbie Krogbin at (702) 295-2409 for technical issue resolution.

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P.O. Box 93838
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OFFSITES PROJECTS
ANALYTICAL SERVICES REQUEST FORM

- A. Prepared By: Bryan Cherry
- B. Date of Request: March 30, 1998
- C. Request Form: 3 of 3
- D. Site Name: Salmon Site
- E. Project Number: 772865.01050000

1. General description of analytical service requested and number of work units involved:

Seven (7) water samples will be submitted for analysis for arsenic using SW-846 Method 7060A (AA, Furnace Technique), or equivalent method approved by the Project.

See additional request forms for other analytical requirements

2. Purpose of analysis (site characterization, cleanup verification, routine monitoring, etc.):

The samples will be collected for characterization purposes.

3. Estimated date(s) of collection and shipment:

The samples will be collected and shipped to the laboratory via Federal Express during the week of April 20, 1998.

4. Number of days analysis and data required after laboratory receipt of samples:

The laboratory shall provide Certificates of Analysis within 30 days of receipt of the samples. The analytical data packages for all samples shall be delivered within 35 days of receipt of the last sample.

5. Analytical method required (attach copy if not a standard method):

The samples will be analyzed for arsenic using the SW-846 Method 7060A.

6. Special technical instructions (if outside method requirements, specify compound names, CAS numbers, detection limits, etc.):

None

7. Analytical deliverables required (i.e., certificates of analyses, analytical data packages, etc.):

- Certificates of Analysis
- All analytical data deliverables required under the Contract Laboratory Program (CLP) Statement of Work (SOW)
- Electronic data transfer

8. Third Party data validation required:

Yes

9. Other requirements:

None

**10. Name of sampling/shipping contact: Kurt Schmidt, IT Las Vegas
Phone: (702) 295-2594**

11. Data Requirements:

Precision

Parameter
Arsenic

Quantitation Limit
2 µg/L

Accuracy
± 20% RPD
80%-120% R

12. QC Requirements:

<u>Audits Required</u>	<u>Frequency of Audits</u>	<u>Limits</u>
Blanks	1 every 12 hours	< IDL
MS	1 every 20 samples	$\pm 20\%$ RPD 80%-120% R
All other QC	Per Method 7060A	

13. Technical Contact:

Call: Chip Bartholomay at (702) 295-2051 or Debbie Krogbin at (702) 295-2409 for technical issue resolution.

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