GW - 295

REPORT

DATE:

08-03-07

SMITH

RECEIVED
2007 AUG 27 PM 12 37

Report
8-3-07

August 24, 2007

Carl Chavez
NM Energy, Minerals & Nat. Resources
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

Re: Submit *Report of Continued Phase II Environmental Site Assessment and Site Remediation* dated 8/3/07 for the Former Smith Services, Drilco Facility Located at 1120 W. Bender, Hobbs.

Dear Mr. Chavez:

Smith International, Inc. (SMITH) is pleased to submit for your review the above report stating the procedures, findings, conclusions and recommendations following the continued phase II assessment and remediation activities. The phase II and work plan report was submitted to Jack Ford on 3/15/04 and approved in his 3/30/05 letter.

If you have any questions please contact me at 281-233-5401.

Sincerely,

L. Davis

Lee Davis
Mgr., Environmental Affairs

cc: Maury Sticker / file
Larry Johnson, OCD- Hobbs

REPORT OF CONTINUED PHASE II ENVIRONMENTAL SITE ASSESSMENT AND SITE REMEDIATION

SMITH Services, Drilco – Bender Road Facility
1120 West Bender Road
Hobbs, New Mexico

Prepared for

Smith International, Inc.
16740 Hardy Street
Houston, Texas 77032

Prepared by

3-D Environmental, Inc.
4314 East 107th Street
Tulsa, Oklahoma 74137

3-D Project 110403

August 3, 2007

3-D

REPORT OF CONTINUED PHASE II ENVIRONMENTAL SITE ASSESSMENT AND SITE REMEDIATION

SMITH Services, Drilco – Bender Road Facility
1120 West Bender Road
Hobbs, New Mexico

Prepared for

Smith International, Inc.
16740 Hardy Street
Houston, Texas 77032

Prepared by

3-D Environmental, Inc.
4314 East 107th Street
Tulsa, Oklahoma 74137

3-D Project 110403

August 3, 2007

3-D

3-D

3 – D Environmental, Inc.

August 3, 2007

Mr. Lee Davis
Smith International, Inc.
16740 Hardy Street
Houston, Texas 77032

REPORT OF CONTINUED PHASE II ENVIRONMENTAL SITE ASSESSMENT AND SITE REMEDIATION
SMITH Services, Drilco - Bender Road Facility
1120 West Bender Road
Hobbs, New Mexico
3-D Environmental, Inc. Project 110403

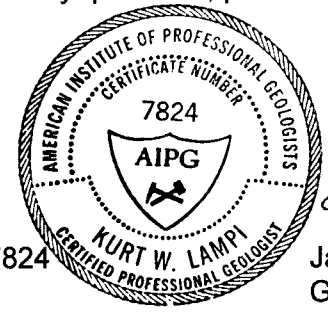
Dear Mr. Davis:

3-D Environmental, Inc. (3-D) is pleased to submit this Report of Continued Phase II Environmental Site Assessment and Site Remediation for the former SMITH Services, Drilco facility located at 1120 West Bender Road in Hobbs, New Mexico. Acting on behalf of Smith International, Inc. (SMITH), you authorized 3-D to perform the assessment services. The purpose of the assessment services was to determine the presence, absence and / or vertical extent of contaminants in the soil and to conduct surface soil remediation confirmation soil sampling following soil excavation. The findings of the field work and analytical results are presented in this report.

This report is intended for the exclusive use of SMITH. Reliance on this document by any other party is forbidden without the express written consent of SMITH and 3-D. Use of this report for purposes beyond those intended by 3-D will be at the sole risk of the user.

This report presents project information, which includes field procedures and limitations, along with the findings, conclusions, and recommendations. We appreciate your selection of 3-D for this project. If you have any questions, please do not hesitate to contact Kurt Lampi at (918) 298-7999.

Sincerely,
3-D Environmental, Inc.



Kurt W. Lampi, AIPG CPG No. 7824
Hydrogeologist / Vice President

Janie M. Lampi
Geologist / President

File:\110402\RemediationReport

TABLE OF CONTENTS

LETTER OF TRANSMITTAL

1.0 INTRODUCTION 1
1.1 Purpose of Services 1
1.2 Qualifications and Limitations 1

2.0 SUMMARY OF FINDINGS AND SCOPE OF SERVICES 2
2.1 Continued Phase II Assessment Activities 2
2.2 Arsenic Background Soil Sampling 2
2.3 Facility Areas Identified for Soil Remediation 3

3.0 PROPERTY INFORMATION 4
3.1 Property Use and Description 4
3.2 Adjacent Property Use 5
3.3 Geologic and Hydrologic Setting 5
3.4 Site Soil Description 5

4.0 PROJECT CHRONOLOGY 6

5.0 CONTINUED PHASE II ASSESSMENT ACTIVITIES 8
5.1 Soil and Boring Sample Locations 8
5.2 Soil Sampling Procedures 8
5.3 Field and Laboratory Analytical Findings 9

6.0 BACKGROUND SOIL SAMPLING 12

7.0 SOIL REMEDIATION 14
7.1 Machine Shop Covered Work Area 14
7.2 Southwest Corner of the Machine Shop Building 22
7.3 Fuel Storage Area 27
7.4 Pipe Straightener Area and Pipe Reamer Area 29

8.0 SITE RESTORATION AND SOIL DISPOSAL 35

9.0 CONCLUSIONS AND RECOMMENDATIONS 36

LIST OF FIGURES

Figure 1 – Site Location Map (After Page 4)
Figure 2 – Continued Phase II ESA Sampling Plan (After Page 8)
Figure 3 – Background Sampling Diagram (After Page 12)
Figure 4 – Soil Remediation Location Plan (After Page 14)
Figure 5 – Machine Shop Covered Work Area Remediation Plan (After Page 14)
Figure 6 – Southwest Corner of Machine Shop Remediation Plan (After Page 22)
Figure 7 – North of Machine Shop Remediation Plan (After Page 27)
Figure 8 – Pipe Straightener and Pipe Reamer Remediation Plan, TPH Concentrations (After Page 29)
Figure 9 – Pipe Straightener and Pipe Reamer Remediation Plan, Arsenic Concentrations (After Page 29)

LIST OF TABLES

Table 1 – Continued Phase II ESA Laboratory Analytical Summary for Metal Elements and TPH (Page 10)
Table 2 – Continued Phase II ESA Laboratory Analytical Summary for Tetrachloroethene (Page 11)
Table 3 – Laboratory Analytical Data – Arsenic Analyses (Page 13)
Table 4 – Machine Shop Covered Work Area Summary Table (Pages 15 to 18)
Table 5 – Bucking Machine Shed Summary Table (Page 20)
Table 6 – Southwest Corner of Machine Shop Covered Work Area Summary Table (Page 21)
Table 7 – Southwest Corner of the Machine Shop Building Summary Table (Pages 23 to 26)
Table 8 – Fuel Storage Area Summary Table (Page 28)
Table 9 – Pipe Straightener Area Summary Table (Pages 30 and 31)
Table 10 – Pipe Reamer Area Summary Table (Pages 33 and 34)

PHOTOGRAPHS

LIST OF APPENDICES

Appendix A – Soil Boring Logs
Appendix B – Field Assessment Procedures
Appendix C – Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on May 17, 2005
Appendix D – Laboratory Analytical Data and Chain-of-Custody Record, Background Soil Samples Collected on May 17, 2005
Appendix E – Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on June 23, 2005
Appendix F – Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on September 13, 2005
Appendix G – Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on August 30, 2006
Appendix H – Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on September 20, 2006
Appendix I – Laboratory Analytical Data and Chain-of-Custody Records, Backfill and Stockpile Soil Samples Collected on
- June 22, 2005 (Backfill and Soil Stockpile)
- September 13, 2005 (Backfill)
- August 30, 2006 (Soil Stockpile)
- September 20, 2006 (Soil Stockpile)
- October 10, 2006 (Backfill)
- March 14, 2007 (Soil Stockpile)

Appendix J - Non-hazardous Waste Manifests

1.0 INTRODUCTION

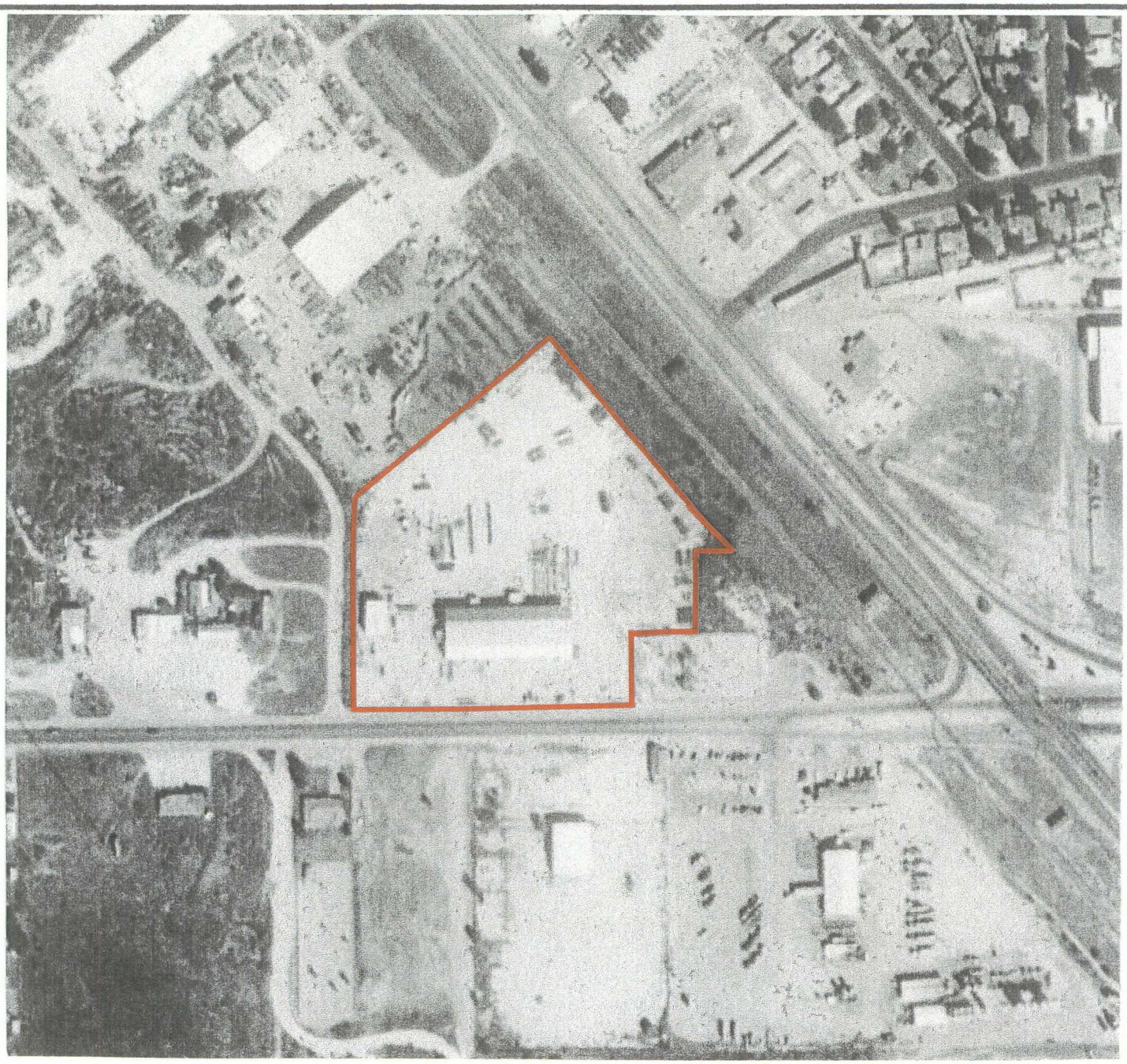
1.1 Purpose of Services

The purpose of the assessment and remediation services at the SMITH Services facility located at 1120 West Bender Road in Hobbs, New Mexico, (See photograph next page) was to continue the Phase II Environmental Site Assessment (ESA) program at additional locations within the facility ground and to remediate specific on-site areas for chemicals of concern (COCs) that exceed the critical industrial Soil Screening Levels (SSLs) that were identified during the Phase II ESA and documented in the 3-D report titled, *Report of Phase II Environmental Site Assessment and Site Remediation Work Plan* dated February 28, 2005 (hereinafter the Phase II ESA report).

1.2 Qualifications and Limitations

The findings and opinions presented are relative to the dates of the site work and should not be relied on to represent conditions at substantially later dates. The opinions included herein are based on information obtained during the current assessment / remediation work and our experience. We have assumed that information gained from interviews was accurate unless our on site observations indicated otherwise. 3-D reserves the right to alter our findings based on our review of any information received after the date of this report.

Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar conditions, by reputable environmental consultants practicing in this or similar localities. No other warranty, expressed or implied, is made as to the professional information contained in this report.



0 300 Feet

Source: http://terraserver-usa.com, November 1, 1997 Aerial Photograph

3-D

3-D
ENVIRONMENTAL, INC.

4314 East 107th Street
Tulsa, Oklahoma 74137

N

1997 AERIAL PHOTOGRAPH

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

3-D Project 110403

2.0 SUMMARY OF FINDINGS AND SCOPE OF SERVICES

The Phase II ESA documented the presence of certain metal, TPH, VOC, and SVOC constituents. Some of the chemicals of concern (COCs) exceeded critical SSL standards in an industrial setting.

2.1 Continued Phase II Assessment Activities

Historic information acquired from aerial photographs and an interview with the former facility manager identified additional areas for assessment. These locations were:

1. Former Oil Wellhead.
2. Former Tank Battery
3. Former Reserve Pit
4. Former Scrap Metal Bin

A Phase II ESA was performed on May 17, 2005 at the above facility locations to determine the presence or absence of COCs and at the south end of the facility to determine site specific Arsenic in soil background concentration levels. Soil borings using direct-push technology were advanced to a maximium depth of 3.2 feet, and a soil sample was taken from each boring and submitted for laboratory analysis.

2.2 Arsenic Background Soil Sampling

Eight surface soil samples were collected in relatively unaffected areas of the south storage yard and submitted to the analytical laboratory for total Arsenic analysis. Following the receipt of the analysis from the laboratory, a site-specific Arsenic background concentration and upper tolerance limit was calculated and compared with the other assessment and remediation analytical findings.

2.3 Facility Areas Identified for Soil Remediation

The identified affected on-site locations having soil impacts that exceeded critical industrial SSLs were:

Area 1 – Perimeter Areas Surrounding the Machine Shop Building

1. Certain areas along the former pipe rack rails located in the work area to the north of the machine shop contained elevated metals, SVOCs, and / or TPH-DRO exceeding the critical Industrial SSL for Direct Contact.
2. The surface soil (Sample 1-4) located at the south end of the north Bucking Machine Shed had impacted TPH compounds exceeding the critical Industrial SSL for Direct Contact.
3. The surface soil (Sample 1-5) located in the southwest corner of the machine shop area was affected by historic spills or leaks from hydraulic hoses. The soil contained TPH COCs exceeding the critical Industrial SSL for Direct Contact.
4. The surface soil located to the south of the southwest corner of the machine shop where a former Bucking Machine stood was impacted by hydraulic oil spills and leaks. The soil contained TPH COCs exceeding the critical Industrial SSL for Direct Contact.

Area 2 – The Fuel and Product Storage Area, the Pipe Straightener Area, and Pipe Reamer Area Located to the North of the Machine Shop

5. Elevated Arsenic constituents were detected in Sample 2-2 exceeding Industrial Direct Contact exposure.
6. One VOC constituent, Tetrachloroethene was detected in Sample 2-3.
7. TPH compounds were found in surface soil samples 2-4 (pipe straightener) and 2-5 (pipe reamer) exceeding Industrial Direct Contact exposure.

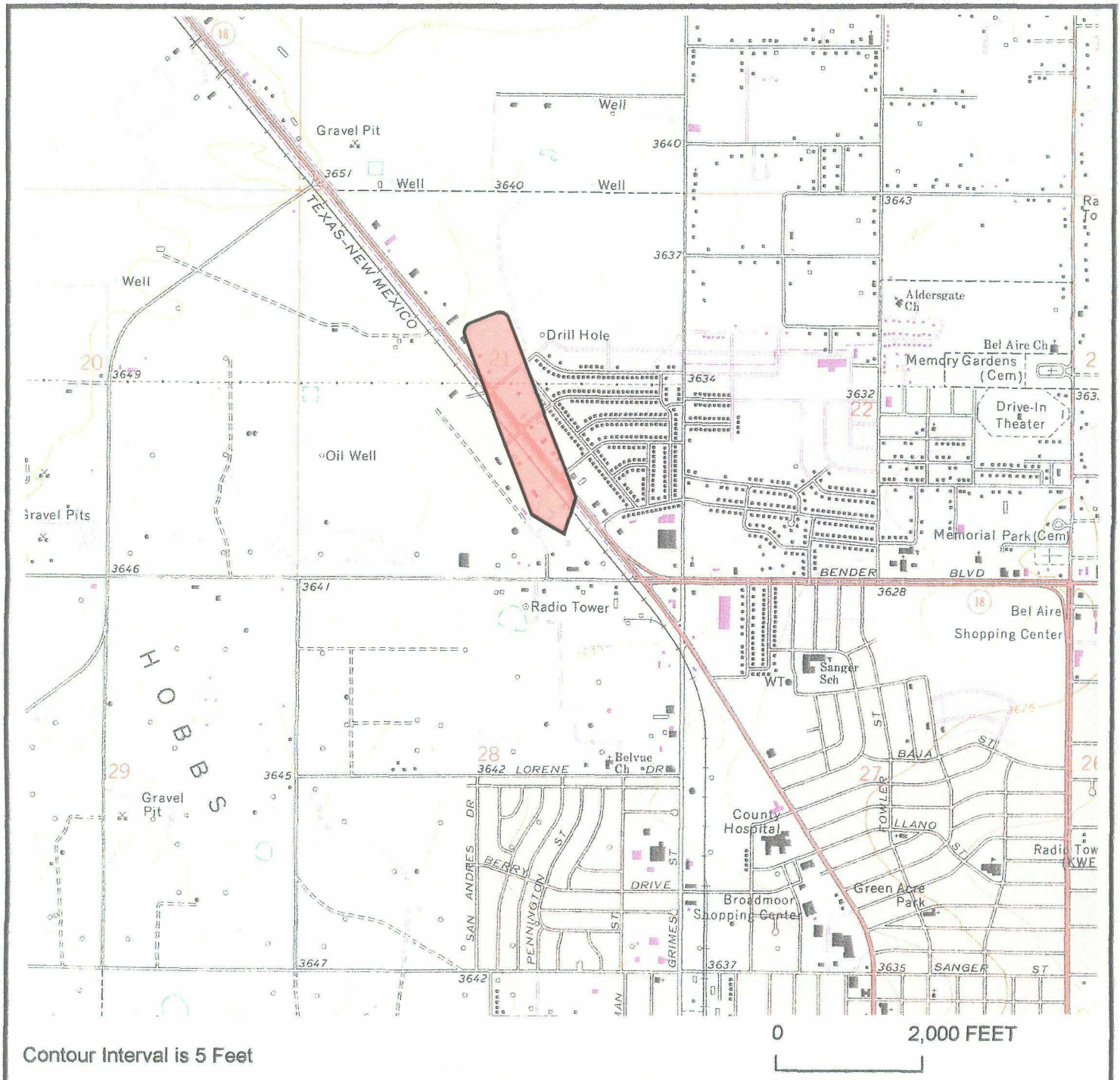
Soil remediation by excavation was proposed at all of the locations exceeding the critical SSLs. Following soil excavation, confirmation soil samples were collected along the floor and sidewalls of each excavation and submitted for laboratory analysis. The results of the laboratory findings documented the residual COCs in surrounding native soil following site remediation activities.

In addition, the clean soil backfill and the remediation soil stockpile were sampled after each event beginning on June 22, 2005.

3.0 PROPERTY INFORMATION

3.1 Property Use and Description

The SMITH Services, Drilco facility is an eight – acre property located in the west portion of the city of Hobbs (please refer to Figure 1). SMITH acquired the facility in the summer of 2001 when the company purchased Star Tool, a regional oil field service company. The facility was reportedly first developed in the early 1960s as Evans Machine, a machine shop enterprise that repaired downhole fishing tools and pump jack gear boxes. Ownership changed in 1985 when B & B Machine Shop, a Star Tool company, purchased the facility and discontinued the servicing of pump jacks. SMITH ceased site operations in July 2004. Intended future property use by the current owner (PEMCO) is industrial.



Contour Interval is 5 Feet

Source: United States Geological Survey, Hobbs West, NM Quadrangle 1969 (Photorevised 1979)

3-D

3-D
ENVIRONMENTAL, INC.

4314 East 107th Street
Tulsa, Oklahoma 74137

N

FIGURE 1
SITE LOCATION MAP

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

3-D Project 110403

3.2 Adjacent Property Use

The site is located among other industrial properties along West Bender Road. Adjacent companies are:

- Pemco – an oil field services company, adjacent and north.
- Everett Foyt Welding, across West Bender Road to the south.
- Schlumberger, across West Bender Road to the south.
- An electrical substation, adjacent and east.
- Railroad right-of-way, adjacent and east.
- A warehouse for a uniform company, adjacent and west.

3.3 Geologic and Hydrologic Setting

The SMITH Services, Drilco property is located on the lower Pliocene to middle Miocene age Ogallala Formation. The Ogallala Formation consists of alluvial and eolian deposits, and petrocalcic soils of the southern High Plains. The site is located near the divide separating flow to either the Seminole Draw or the Monument Draw. A small depression that occasionally retains water exists off-site to the southwest at a distance of 800 feet. Surface run off is generally to the south. Based on information provided by the former facility manager, Mr. Don Gerth, the facility has flooded three times within the last 20 years. The last time was July 2004. When flooding occurs, the standing water covers the entire SMITH property and includes adjacent properties.

3.4 Site Soil Description

The surface soils are described as Portales or Gomez fine sandy loams according to the *Soil Survey of Lea County, New Mexico*, published by the U.S. Department of the Agriculture, Soil Conservation Service. Both soil classifications form within level areas and depressions. Portales loam consists of dark brown to grayish brown loam to a depth of 12 inches. This layer becomes sticky and slightly plastic when wet.

The subsoil is pale brown clay loam to a depth of approximately two feet. The next subsoil layer is made up of four feet of pale brown chalky loam with silty soils. Physical properties of the Portales loam are moderately permeable, slow runoff, and moderate water intake.

4.0 PROJECT CHRONOLOGY

The proposed services were conducted over an approximate two-year period beginning with a soil boring assessment on May 17, 2005 and ending on May 17, 2007 with the removal of the excavated soil stockpiles (generated from on-site soil remediation excavations) to an approved landfill. The summarized facility activities are as follows:

- May 17, 2005
  1. Background soil samples were collected along the south perimeter fencing.
  2. Soil borings were advanced at potential historic environmental impact areas identified in Section 2.3.
  3. Remediation confirmation soil samples were collected at the limits of the machine shop excavations located to the north of the former machine lathes.

- June 23, 2005
  1. Remediation by excavation continued at the SMITH Drilco facility inside the covered area to the north of the machine shop: 1) at the south end of bucking machine shed and 2) at a hydraulic oil stained area in the southwest corner.
  2. Excavation was conducted to the west and south of the machine shop at the southwest corner of the building.
  3. Remediation excavation was also begun to the west of the fuel storage area (ASTs) located to the north of the machine shop.

- September 13, 2005
  Continued remediation excavation was conducted in the southwest corner of the soil covered area of the machine shop. Other areas targeted for remediation excavation were placed on hold pending the removal of the pipe straightener (sample location 2-4) and pipe reamer (sample location 2-5) equipment.

  The machine shop (covered area) excavations were backfilled with clean fill.

- August 30, 2006
  Excavation remediation was initiated at the pipe straightener and pipe reamer locations.

- September 20, 2006
  Certain sections of the pipe straightener and pipe reamer excavations were expanded vertically and horizontally, respectively, to remove residual COCs detected following the analysis of confirmation soil sampling on August 30, 2006.

- October 10, 2006
  All of the 2006 excavated areas were backfilled with clean fill soil.

- March 14, 2007
  The on-site soil stockpile created during the soil remediation activities was resampled and characterized for disposal.

- May 17, 2007
  The soil stockpile was loaded onto truck transports and properly disposed at Sundance Services, Inc. landfill located in Eunice, New Mexico.

5.0 CONTINUED PHASE II ASSESSMENT ACTIVITIES

5.1 Soil and Boring Sample Locations

Historic information identified the following areas for continued assessment:

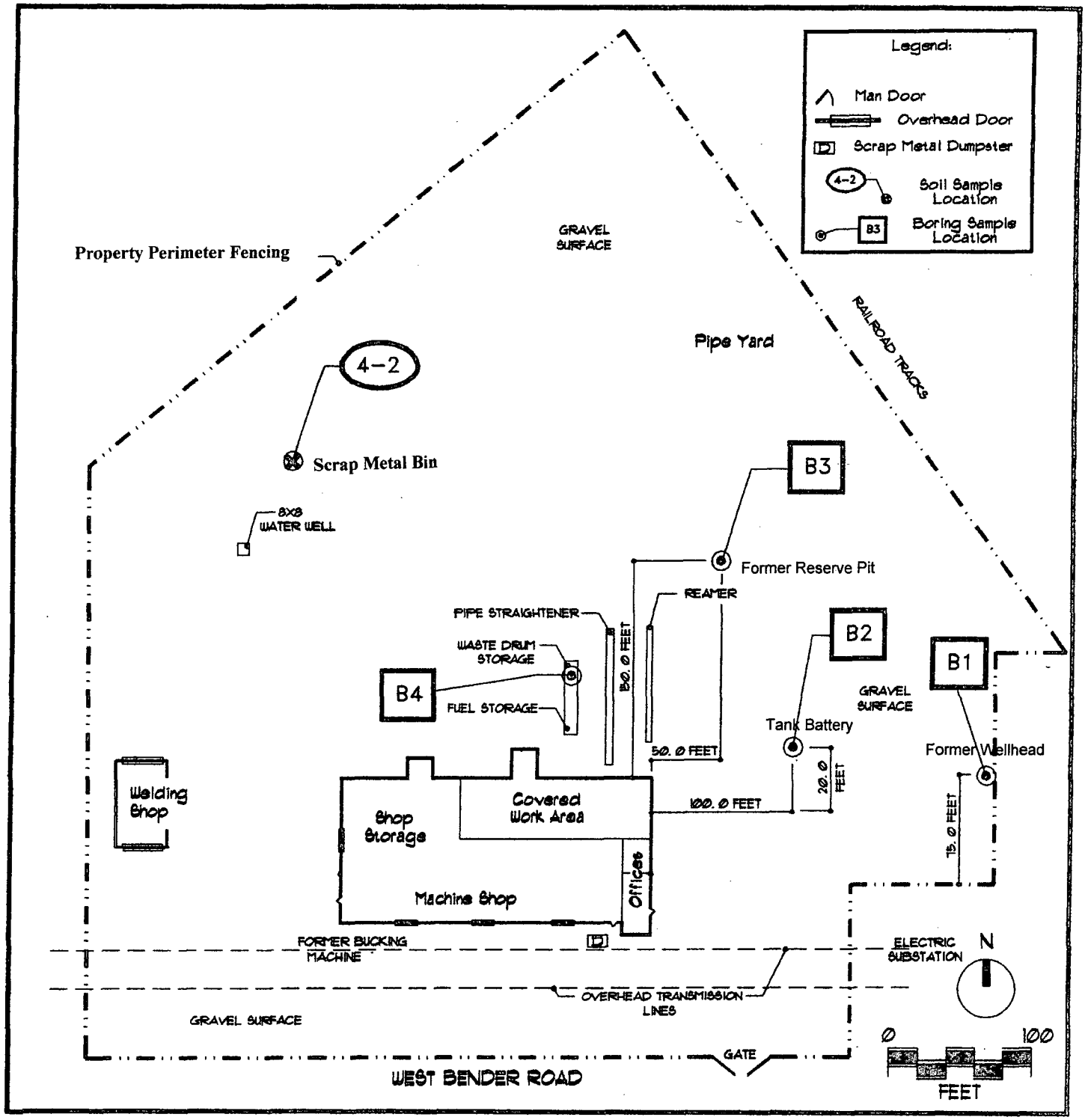
1. Former Oil Wellhead – Boring B1.
2. Former Tank Battery – Boring B2.
3. Former Reserve Pit – Boring B3.
4. Former Scrap Metal Bin – Soil sample 4-2.

In addition, the initial Phase II ESA identified the need to vertically define Tetrachloroethene at sample location 2-3 – Boring B4 (please refer to Figure 2).

5.2 Soil Sampling Procedures

Four soil borings (and one surface soil sample) were advanced at the former SMITH Services, Drilco facility on May 17, 2005 to a maximum depth of 3.2 feet below the ground surface using a Strataprobe direct-push coring drill. Borings were vertically limited by limestone bedrock or by a hard, very well cemented caliche rock horizon. Soil boring locations are presented in Figure 2, and soil boring logs are presented in Appendix A.

One native soil sample was collected from each boring and submitted to the analytical laboratory for testing. Soil boring sampling procedures are provided in Appendix B.



3-D

3-D ENVIRONMENTAL, INC.

4314 East 107th Street
Tulsa, Oklahoma 74137

FIGURE 2

CONTINUED PHASE II ESA SAMPLING PLAN

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

3-D Project : 110403

The requested laboratory analytical methods were one or more of the following:

- Semi-volatile Organic Compounds (SVOCs) using EPA Method SW8270C.
- Volatile Organic Compounds (VOCs) using EPA Methods 5035 and SW8260B.
- RCRA metals (Barium, Chromium, Cadmium, Lead, Mercury, Silver, Arsenic, Selenium) using EPA Method SW6020 and EPA Method SW7471A (for Mercury).
- Total Petroleum Hydrocarbons (TPH) using EPA Method SW8015B for TPH-DRO and TPH-ORO.

The soil sample chain-of-custodies are provided in Appendix C and show the requested analyses for each soil sample that was submitted to the analytical laboratory.

5.3 Field and Laboratory Analytical Findings

Similar lithology was intercepted in each boring / soil sample. Beneath a thin layer of gravel base material, the top surface layer of soil consisted of an approximately one- to three-foot layer of brown to dark brown silty loam that transitioned into a dry dark brown clayey loam at the base of the soil horizon. A light brown limestone or hard caliche stratum was intercepted beneath the loamy soil layer and represented the drilling unit refusal depth. Shallow ground water was not intercepted. Summary tables of the analytical results are provided in Tables 1 and 2. The laboratory data sheets are provided in Appendix C.

TABLE 1
CONTINUED PHASE II ESA LABORATORY ANALYTICAL SUMMARY FOR METAL ELEMENTS AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON MAY 17, 2004
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[5]	NM-HB-DRL-4-B1-0102	NM-HB-DRL-4-B2-0001	NM-HB-DRL-4-B3-0203	NM-HB-DRL-2-B4-0102	NM-HB-DRL-4-B3-0304 (Dup of 4-2)	NM-HB-DRL-4-2
Assessment Area				4	4	4	2	4	4
Metals / Sample Depth (Ft)				1.5	0.5 to 1.0	0.3	1.5	0.5	0.5
Mercury	0.051	23.5 / 341	> 0.132[4]	< 0.015	< 0.017	< 0.016	--	< 0.018	< 0.015
Arsenic	7.36[6]	3.9 / 17.7	58.3	3.61	3.81	1.96	--	1.62	1.42
Barium	300	5,450 / 78,300	> 3,190[4]	133	106	145	--	77.2	57.7
Cadmium	Not Defined	74.1 / 8,600	7.52	0.18	0.18	0.352	--	< 0.10	< 0.11
Chromium (total)	20	234 / 3,400	> 735[4]	9.18	10.4	20.3	--	5.87	5.20
Lead	10	400 / 750	> 881[4]	5.50	7.24	11.3	--	4.39	3.68
Selenium	0.1	391 / 5,680	5.17	0.971	0.724	0.902	--	0.38	0.21
Silver	Not Defined	391 / 5,680	8.47	< 0.098	< 0.11	< 0.12	--	< 0.10	< 0.11
TPH									
Diesel Range (DRO, C10-C28)	--	---	--	75.9	416	< 3.5	--	< 3.1	< 3.2
Oil Range (ORO, >C28-C35)	--	---	--	88.2	357	< 3.5	--	< 3.1	< 3.2
Gasoline Range (GRO)	--	Refer to petroleum-related COCs	--	< 0.0.62	< 0.066	< 0.064	--	< 0.057	< 0.061
Total TPH Ranges	--	880 / 2,200	--	164.1	773	< 3.5	--	< 3.1	< 3.2

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270*, 1982.
[4] Taken from SPLP analytical results for Mercury, Barium, Chromium, and Lead presented in Table 3.
[5] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
[6] Site-specific upper tolerance limit for Arsenic

TABLE 2
CONTINUED PHASE II ESA LABORATORY ANALYTICAL SUMMARY FOR TETRACHLOROETHENE
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Direct Contact Residential Soil / Industrial Soil[1]	Soil to GW[1] DAF 20[2]	NM-HB-DRL-2-3 (From earlier Phase II ESA)	NM-HB-DRL-2-B4-0102
Assessment Area			2	2
Metals / Sample Depth (Ft)			0.3	1.5
Tetrachloroethene	9.83 / 24.6	0.00644	0.00843	0.0037

Notes: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
NPT – SSL values were not provided in tables[1].

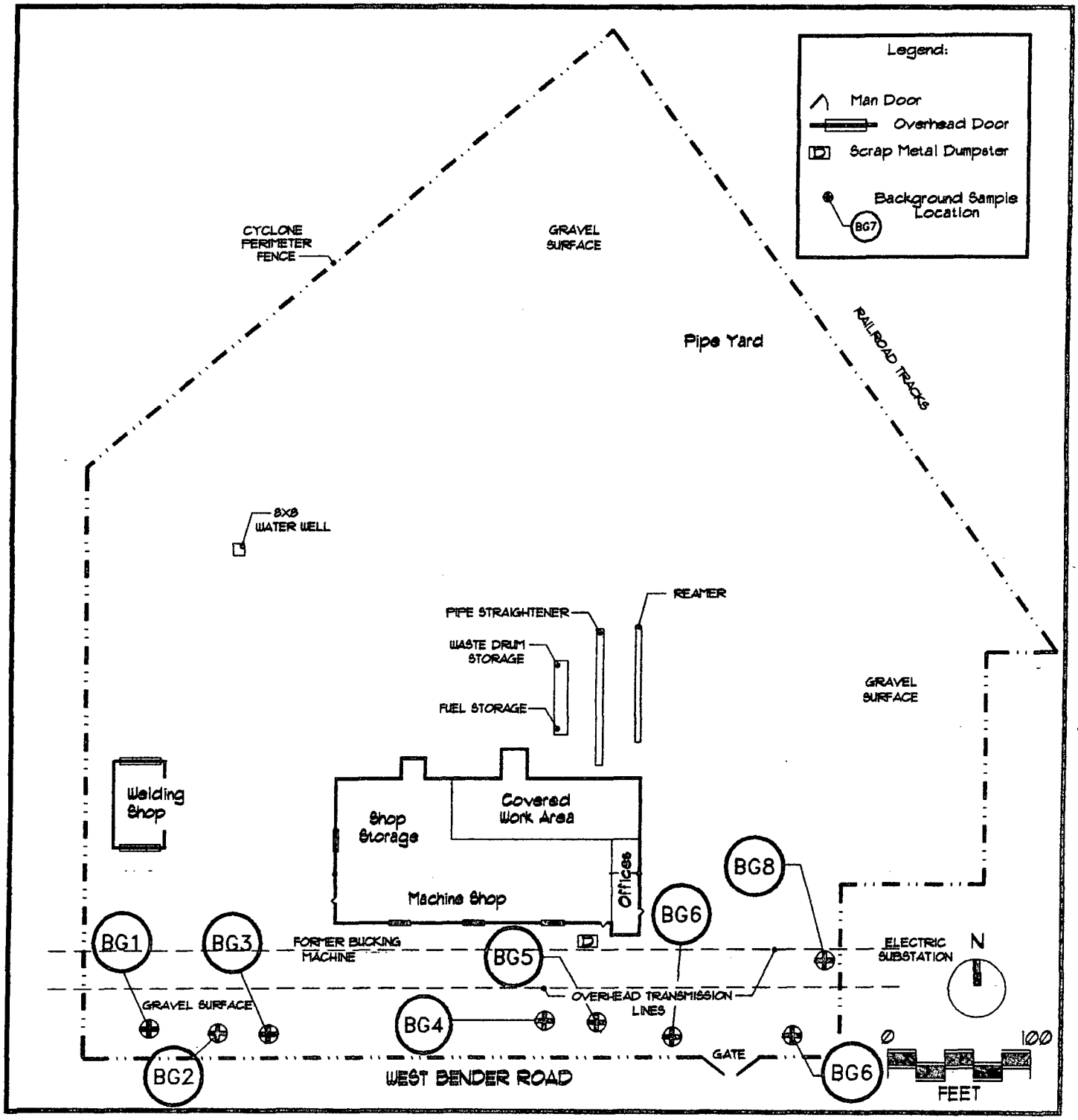
The laboratory analytical findings of the soil samples collected on May 17, 2005 showed that the targeted COCs in borings B1 through B3 and surface soil sample 4-2 were within background concentrations for metals or were less than the laboratory sample quantitation limits (SQL) for VOCs and SVOCS. TPH-DRO constituents were detected in Boring B1 (the former wellhead location) at a concentration of 164.1 milligrams per Kilogram (mg/Kg) and in Boring B2 (the former tank battery site) at a concentration of 773 mg/kg. Both of the TPH concentrations were less than critical SSLs (880 mg/Kg residential and 2,200 mg/Kg industrial).

The soil sample from boring B4 collected at a depth of 1.5 feet was tested for Tetrachloroethene (PCE) at former sample location 2-3. This COC was detected at a concentration of 0.0037 mg/Kg (refer to Table 2) which is less than the critical SSL of 0.00644 mg/Kg and shows a decline in PCE concentration from the shallower surface soil sample (2-3 collected at 0.5 foot).

6.0 BACKGROUND SOIL SAMPLING

A site-specific Arsenic background concentration was developed for the SMITH Services, Drilco facility. The southern perimeter of the property was considered an area that has not been impacted by industrial activity. Background soil samples were collected in this area inside the perimeter fencing (please refer to Figure 3).

Laboratory data sheets are provided in Appendix D. Table 3 summarizes the analytical results, and the mean and upper tolerance limit calculations are presented on the following page. The calculated Arsenic site specific upper tolerance limit is 7.36 mg/Kg.



3-D

3-D ENVIRONMENTAL, INC.

4314 East 107th Street
Tulsa, Oklahoma 74137

FIGURE 3
BACKGROUND SAMPLING DIAGRAM

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

3-D Project 110403

TABLE 3
LABORATORY ANALYTICAL DATA - ARSENIC ANALYSES
SOUTH SIDE OF FACILITY
SMITH SERVICES, HOBBS FACILITY
Samples Collected on May 17, 2005
(All Soil Concentrations Values Are Expressed In Milligrams per Kilogram)

Sample No.	Arsenic (As)
BG-1	3.20
BG-2	4.05
BG-3	4.78
BG-4	2.58
BG-5	2.52
BG-6	1.85
BG-7	2.54
BG-8	5.43

UTL for Arsenic (As) – One sided Normal Tolerance Limits, 95% Confidence

UTL = x + Ks, (If 8 samples are collected, then K equals 3.188)

x = sample mean

s = standard deviation

$x = (3.20 + 4.05 + 4.78 + 2.58 + 2.52 + 1.85 + 2.54 + 5.43) / 8$

x = 3.37 mg/kg = Arsenic mean concentration

Standard Deviation (s) = $(((x_1 - x)^2 + (x_2 - x)^2 + ...+ (x_n - x)^2) / (n - 1))^{0.5}$

$s = (((3.37 - 3.20)^2 + (3.37 - 4.05)^2 + (3.37 - 4.78)^2 + (3.37 - 2.58)^2 + (3.37 - 2.52)^2 + (3.37 - 1.85)^2 + (3.37 - 2.54)^2 + (3.37 - 5.43)^2 / 7)^{0.5}$

s = 1.25 mg/kg

As UTL = 3.37 mg/kg + (3.188)(1.25 mg/kg)

As UTL = 7.36 mg/kg

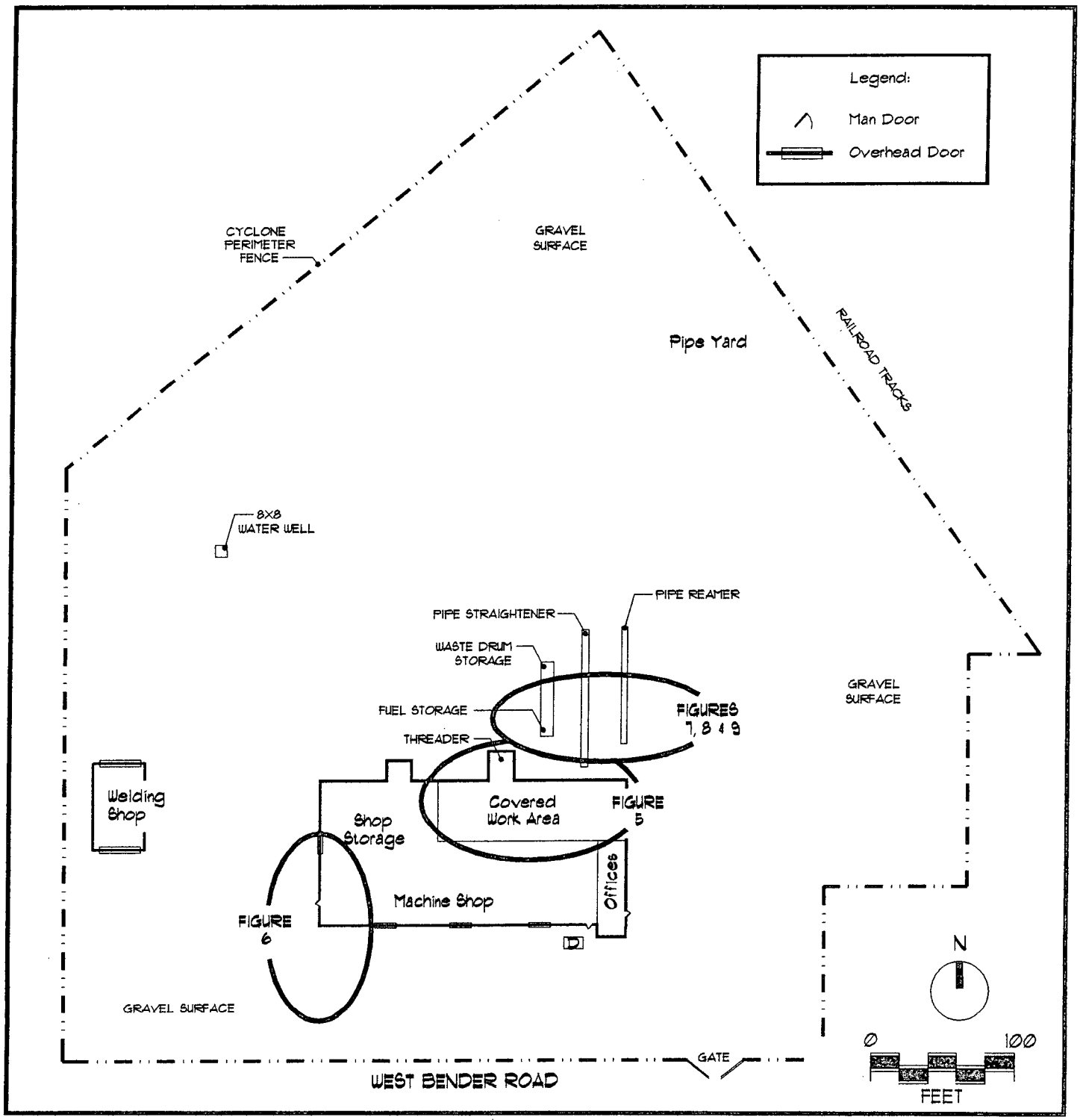
7.0 SOIL REMEDIATION

Soil remediation by excavation was conducted between May 17, 2005 and September 20, 2006 to reduce certain metal, SVOC, and TPH COCs. The field findings and analytical results are presented below. Figure 4 shows remediation locations within the SMITH Services, Drilco facility.

7.1 Machine Shop Covered Work Areas

1. Machine Lathe Area – The surface soils located between the four lathe station pipe stands contained elevated TPH-DRO, SVOCS, and / or one or more of the metals Arsenic, Chromium, and Lead exceeding the critical Industrial SSL for Direct Contact. The affected Machine Lathe Area, measuring 58 feet by 40 feet, was remediated by excavation on May 17, 2005 as shown on Figure 5. Confirmation soil samples, 1-11 through 1-38, were collected from the floor (average depth of two feet) and sidewalls of each individual excavation to determine the residual COCs left in place. The surface grade level concrete pier foundation for steel rail supports prevented contiguous excavations within this area. Table 4 (pages 15 to 18) presents the laboratory analytical findings for the TPH and metals analyses. Soil samples 1-23 through 1-28 and 1-37 were also tested for SVOCs. No SVOC COCs were detected above the laboratory sample quantitation limit (SQL) in any of these samples. The laboratory analytical data sheets are located in Appendix E.

The analytical results show that most of the soil samples contain metal and TPH concentrations at or below site or regional background concentration levels. None of the soil samples exceeded critical residential or industrial SSLs following soil removal remediation.



3-D

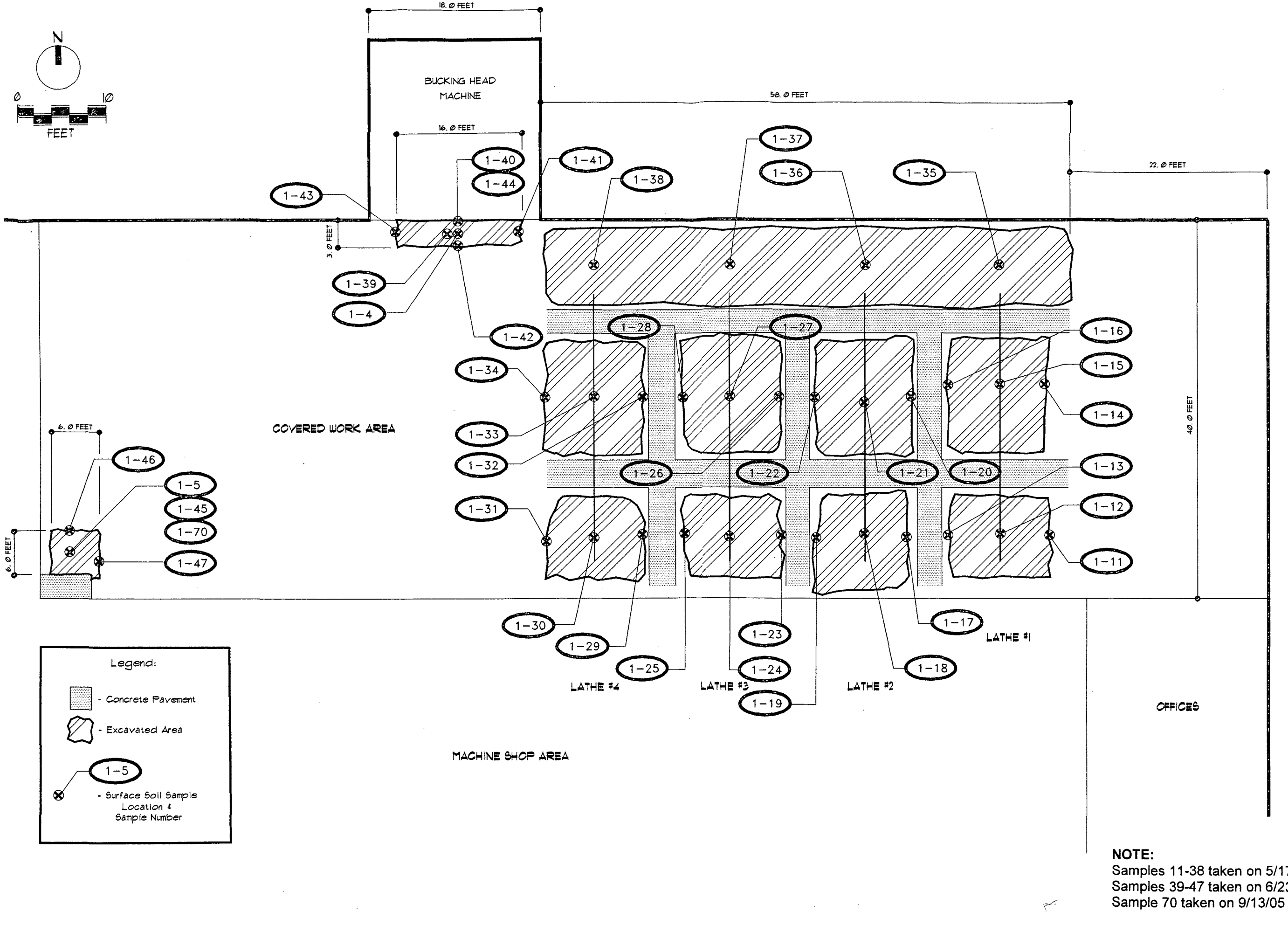
3-D ENVIRONMENTAL, INC.

4314 East 107th Street
Tulsa, Oklahoma 74137

FIGURE 4
SOIL REMEDIATION LOCATION PLAN

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

3-D Project 110403



NOTE:
Samples 11-38 taken on 5/17/05
Samples 39-47 taken on 6/23/05
Sample 70 taken on 9/13/05

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

FIGURE 5
MACHINE SHOP COVERED WORK AREA
REMEDIATION PLAN

3-D

TABLE 4
MACHINE SHOP COVERED WORK AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR METAL ELEMENTS AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON MAY 17, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[5]	NM-HB-DRL-1-11	NM-HB-DRL-1-12	NM-HB-DRL-1-13	NM-HB-DRL-1-14	NM-HB-DRL-1-15	NM-HB-DRL-1-16	NM-HB-DRL-1-17
Assessment Area				1	1	1	1	1	1	1
Metals / Sample Depth (Ft)				0.5 to 1.0	2.0	0.5 to 1.0	0.5 to 1.0	2.0	0.5 to 1.0	0.5 to 1.0
Arsenic	7.36[6]	3.9 / 17.7	58.3	2.22	4.27	3.10	2.36	2.45	2.06	2.28
Chromium (total)	20	234 / 3,400	> 735[4]	12.5	14.0	11.3	13.1	11.9	10.8	10.8
Lead	10	400 / 750	> 881[4]	8.07	29.0	6.17	8.66	7.10	9.64	6.41
TPH										
Diesel Range (DRO, C10-C28)	--	---	--	< 3.4	< 3.5	< 3.5	< 3.2	< 3.4	< 3.3	< 3.3
Oil Range (ORO, >C28-C35)	--	---	--	< 3.4	< 3.5	< 3.5	< 3.2	< 3.4	< 3.3	< 3.3
Total TPH Ranges	--	880 / 2,200	--	< 3.4	< 3.5	< 3.5	< 3.2	< 3.4	< 3.3	< 3.3

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270*, 1982.
[4] Taken from SPLP analytical results for Mercury, Barium, Chromium, and Lead presented in Table 3 of Phase II ESA report dated 2/28/05.
[5] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
[6] Site-specific upper tolerance limit for Arsenic, Bold values exceed the residential and / or industrial SSLs.

TABLE 4
MACHINE SHOP COVERED WORK AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR METAL ELEMENTS AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON MAY 17, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[5]	NM-HB-DRL-1-18	NM-HB-DRL-1-19	NM-HB-DRL-1-20	NM-HB-DRL-1-21	NM-HB-DRL-1-22	NM-HB-DRL-1-23	NM-HB-DRL-1-24
Assessment Area				1	1	1	1	1	1	1
Metals / Sample Depth (Ft)				2.0	0.5 to 1.0	0.5 to 1.0	2.0	0.5 to 1.0	0.5 to 1.0	2.0
Arsenic	7.36[6]	3.9 / 17.7	58.3	6.45	3.39	2.31	4.63	2.60	2.21	4.36
Chromium (total)	20	234 / 3,400	> 735[4]	3.29	9.04	11.5	39.1	9.20	--	--
Lead	10	400 / 750	> 881[4]	6.85	5.86	8.18	66.1	5.18	7.11	57.5
TPH										
Diesel Range (DRO, C10-C28)	--	---	--	< 3.2	< 3.4	< 3.2	113	< 3.0	4.2	131
Oil Range (ORO, >C28-C35)	--	---	--	< 3.2	< 3.4	< 3.2	58.2	3.5	< 3.3	54.0
Total TPH Ranges	--	880 / 2,200	--	< 3.2	< 3.4	< 3.2	171.2	3.5	4.2	185.0

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270*, 1982.
[4] Taken from SPLP analytical results for Mercury, Barium, Chromium, and Lead presented in Table 3 of Phase II ESA report dated 2/28/05.
[5] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
[6] Site-specific upper tolerance limit for Arsenic
Bold values exceed the residential and / or industrial SSLs.

TABLE 4
MACHINE SHOP COVERED WORK AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR METAL ELEMENTS AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON MAY 17, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[5]	NM-HB-DRL-1-25	NM-HB-DRL-1-26	NM-HB-DRL-1-27	NM-HB-DRL-1-28	NM-HB-DRL-1-29	NM-HB-DRL-1-30	NM-HB-DRL-1-31
Assessment Area				1	1	1	1	1	1	1
Metals / Sample Depth (Ft)				0.5 to 1.0	0.5 to 1.0	2.0	0.5 to 1.0	0.5 to 1.0	2.0	0.5 to 1.0
Arsenic	7.36[6]	3.9 / 17.7	58.3	3.09	2.17	3.55	1.89	2.65	4.18	1.95
Lead	10	400 / 750	> 881[4]	5.77	5.56	36.6	5.55	--	--	--
TPH										
Diesel Range (DRO, C10-C28)	--	---	--	5.6	4.5	< 3.5	< 3.2	--	--	--
Oil Range (ORO, >C28-C35)	--	---	--	< 3.5	< 3.2	< 3.5	< 3.2	--	--	--
Total TPH Ranges	--	880 / 2,200	--	5.6	4.5	< 3.5	< 3.2	--	--	--

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270*, 1982.
[4] Taken from SPLP analytical results for Mercury, Barium, Chromium, and Lead presented in Table 3 of Phase II ESA report dated 2/28/05.
[5] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
[6] Site-specific upper tolerance limit for Arsenic
Bold values exceed the residential and / or industrial SSLs.

TABLE 4
MACHINE SHOP COVERED WORK AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR METAL ELEMENTS AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON MAY 17, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[5]	NM-HB-DRL-1-32	NM-HB-DRL-1-33	NM-HB-DRL-1-34	NM-HB-DRL-1-35	NM-HB-DRL-1-36	NM-HB-DRL-1-37	NM-HB-DRL-1-38
Assessment Area				1	1	1	1	1	1	1
Metals / Sample Depth (Ft)				0.5 to 1.0	2.0	0.5 to 1.0	1.0	1.0	1.0	1.0
Arsenic	7.36[6]	3.9 / 17.7	58.3	3.30	5.80	2.91	3.36	2.55	2.33	1.95
Chromium (total)	20	234 / 3,400	> 735[4]	--	--	--	12.5	9.85	--	--
Lead	10	400 / 750	> 881[4]	--	--	--	17.7	5.59	5.01	--
TPH										
Diesel Range (DRO, C10-C28)	--	---	--	--	--	--	30.3	< 3.3	< 3.1	--
Oil Range (ORO, >C28-C35)	--	---	--	--	--	--	12.5	< 3.3	< 3.1	--
Total TPH Ranges	--	880 / 2,200	--	--	--	--	42.8	< 3.3	< 3.1	--

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professional Paper 1270*, 1982.
[4] Taken from SPLP analytical results for Mercury, Barium, Chromium, and Lead presented in Table 3 of Phase II ESA report dated 2/28/05.
[5] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
[6] Site-specific upper tolerance limit for Arsenic
Bold values exceed the residential and / or industrial SSLs.

2. **North Bucking Machine Shed** – The surface soil located along the southern edge of the Bucking Machine Shed (see Figure 5) contained TPH COCs exceeding the critical Industrial SSL for Direct Contact. The TPH-DRO affected area measured three feet wide by 16 feet long by 1.5 feet deep and was remediated on June 23, 2005.

Soil samples 1-39 through 1-44 were taken from the excavation floor and sidewalls and were submitted to the laboratory for TPH analysis. Table 5 found on page 20 presents the laboratory findings of the confirmation samples. The results show that none of the soil samples exceeded either critical residential or industrial SSLs. The laboratory analytical data sheets are provided in Appendix E.

3. **Southwest Corner** – This location of the covered portion of the Machine shop is a six foot by six foot area nestled in the southwest corner (see Figure 5). The ground surface was hydrocarbon stained from historic spills or leaks from hydraulic hoses. The soil contained TPH COCs exceeding the critical Industrial SSL for Direct Contact. Soil remediation by excavation began on June 23, 2005 and was completed after a second visit on September 23, 2005.

Soil samples 1-45 through 1-47 (first phase) and 1-70 (second phase) were collected from the sidewalls and floor (up to three feet deep). The first round of confirmation soil sampling showed residual TPH concentrations in the sidewalls at less than critical SSLs. The floor sample, however, exceeded these limits at a concentration of 17,160 mg/Kg. The work performed on a return trip in September 2005 extended the excavation depth to three feet. The confirmation soil sample (1-70) showed no TPH COCs detected above the laboratory SQL. The analytical findings are summarized in Table 6 on Page 21 and the analytical data sheets are provided in Appendices E and F.

TABLE 5
BUCKING MACHINE SHED SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[3]	NM-HB-DRL-1-39	NM-HB-DRL-1-40	NM-HB-DRL-1-41	NM-HB-DRL-1-42	NM-HB-DRL-1-43	NM-HB-DRL-1-44
Assessment Area			1	1	1	1	1	1 Duplicate of 1-40
Metals / Sample Depth (Ft)			1.5	0.5	0.5	0.5	0.5	0.5
Diesel Range (DRO, C10-C28)	---	--	< 3.6	< 3.3	74.3	< 3.3	< 3.4	< 3.3
Oil Range (ORO, >C28-C35)	---	--	< 3.6	< 3.3	44.5	< 3.3	< 3.4	< 3.3
Total TPH Ranges	880 / 2,200	--	< 3.6	< 3.3	118.8	< 3.3	< 3.4	< 3.3

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.

TABLE 6
SOUTHWEST CORNER – MACHINE SHOP COVERED AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2005 AND SEPTEMBER 13, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20[3]	NM-HB-DRL-1-45	NM-HB-DRL-1-46	NM-HB-DRL-1-47	NM-HB-DRL-1-70
Assessment Area			1	1	1	1
Metals / Sample Depth (Ft)			1.4	0.5	0.5	3.0
Diesel Range (DRO, C10-C28)	---	--	9,520	151	64.3	< 3.1
Oil Range (ORO, >C28-C35)	---	--	7,640	67.9	44.4	< 3.1
Total TPH Ranges	880 / 2,200	--	**17,160**	218.9	108.7	< 3.1

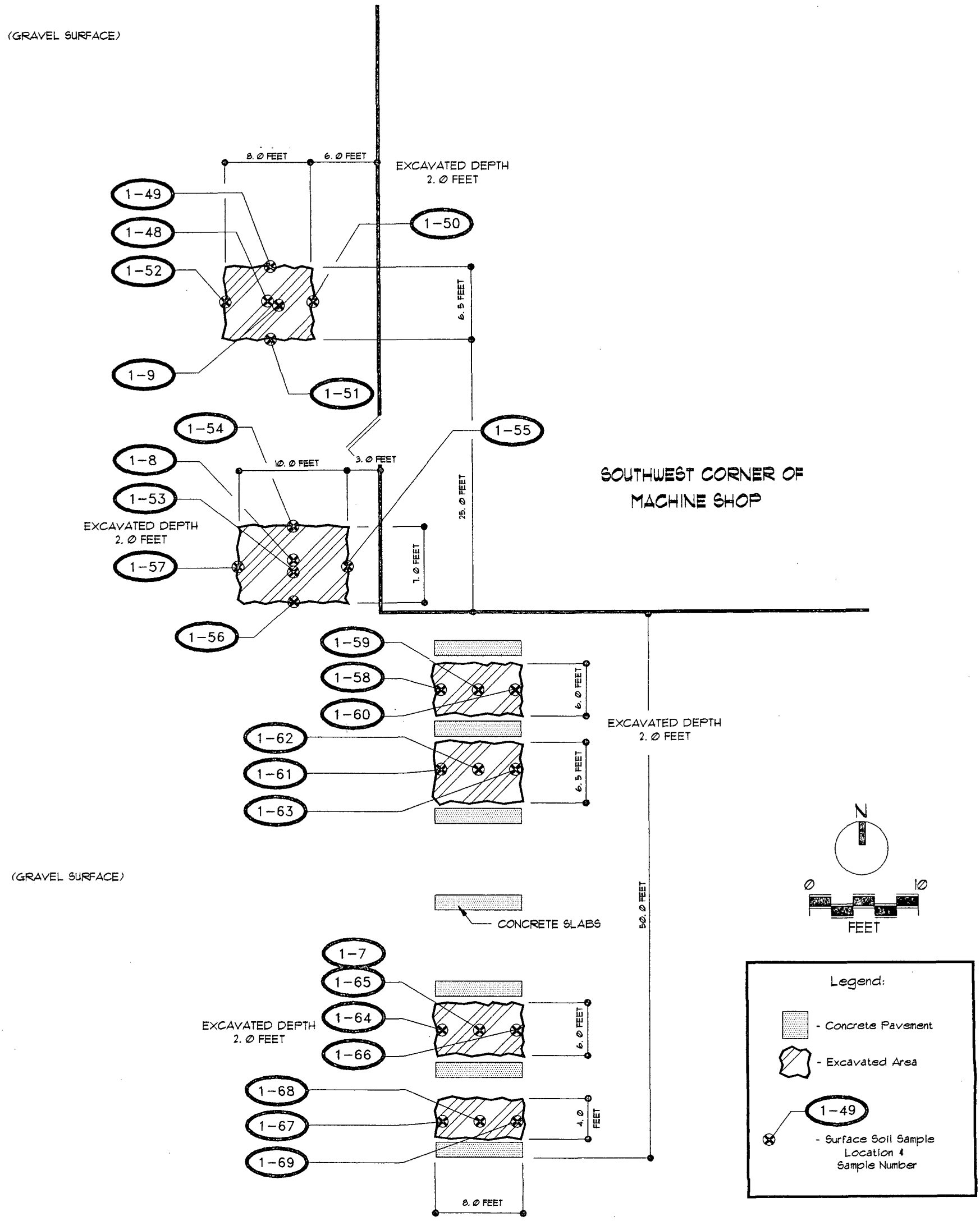
Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.
Bold values exceed the residential and / or industrial SSLs.

7.2 Southwest Corner of the Machine Shop Building

The soil covered area beneath a former drill pipe bucking machine and other close by yard areas near the southwest corner of the machine shop were identified as having historic hydraulic oil spills as documented in the Phase II ESA (See Figure 6). The surface soil in the six small identified areas contained TPH COCs exceeding the critical Industrial SSL for Direct Contact. Two of the areas also were identified as having Arsenic impacts exceeding critical SSLs and were identified by the initial Phase II ESA sampling at sample locations 1-7 and 1-9.

Soil remediation by excavation was initiated on June 23, 2005. A total of 22 sidewall and floor confirmation soil samples were collected to document the residual COCs in the native soil (See Table 7 beginning on Page 23). The depths of the six excavations ranged between 0.5 foot and two feet deep and were eight to ten feet long by four to seven feet wide.

The laboratory analytical results show that none of the soil samples exceeded either critical residential or industrial SSLs. The laboratory analytical data sheets are provided in Appendix E.



3-D

FIGURE 6
SOUTHWEST CORNER OF MACHINE SHOP REMEDIATION PLAN

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

TABLE 7
SOUTHWEST CORNER OF THE MACHINE SHOP BUILDING SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-1-48	NM-HB-DRL-1-49	NM-HB-DRL-1-50	NM-HB-DRL-1-51	NM-HB-DRL-1-52
Assessment Area				1	1	1	1	1
Metals / Sample Depth (Ft)				2.0	0.5	0.5	0.5	0.5
Diesel Range (DRO, C10-C28)	--	---	--	< 3.5	< 3.3	< 3.4	< 3.2	< 3.4
Oil Range (ORO, >C28-C35)	--	---	--	< 3.5	< 3.3	< 3.4	< 3.2	< 3.4
Total TPH Ranges	--	880 / 2,200	--	< 3.5	< 3.3	< 3.4	< 3.2	< 3.4
Arsenic	7.36[4]	3.9 / 17.7	58.3	1.96	3.16	4.23	3.40	4.66

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professiona Paper 1270*, 1982.
[4] Site-specific upper tolerance limit for Arsenic.

TABLE 7
SOUTHWEST CORNER OF THE MACHINE SHOP BUILDING SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-1-53	NM-HB-DRL-1-54	NM-HB-DRL-1-55	NM-HB-DRL-1-56	NM-HB-DRL-1-57	NM-HB-DRL-1-58	NM-HB-DRL-1-59
Assessment Area			1	1	1	1	1	1	1
Metals / Sample Depth (Ft)			2.0	0.5	0.5	0.5	0.5	0.5	0.5
Diesel Range (DRO, C10-C28)	---	--	< 3.4	< 3.2	< 3.8	< 3.2	< 3.2	455	< 3.5
Oil Range (ORO, >C28-C35)	---	--	< 3.4	< 3.2	< 3.8	< 3.2	< 3.2	307	< 3.5
Total TPH Ranges	880 / 2,200	--	< 3.4	< 3.2	< 3.8	< 3.2	< 3.2	762	< 3.5

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.

TABLE 7
SOUTHWEST CORNER OF THE MACHINE SHOP BUILDING SUMMARY TABLE SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH

SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO

SAMPLES COLLECTED ON JUNE 23, 2005

(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	U.S.G.S. BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-1-60	NM-HB-DRL-1-61	NM-HB-DRL-1-62	NM-HB-DRL-1-63	NM-HB-DRL-1-64	NM-HB-DRL-1-65	NM-HB-DRL-1-66
Assessment Area				1	1	1	1	1	1	1
Metals / Sample Depth (Ft)				0.5	0.5	0.5	0.5	0.5	0.5	0.5
Diesel Range (DRO, C10-C28)	--	---	--	537	153	14.2	< 3.3	< 3.3	134	278
Oil Range (ORO, >C28-C35)	--	---	--	336	176	< 3.4	< 3.3	< 3.3	20.4	94.2
Total TPH Ranges	--	880 / 2,200	--	873	329	14.2	< 3.3	< 3.3	154.4	372.2
Arsenic	7.36[4]	3.9 / 17.7	58.3	NR	NR	NR	NR	2.99	2.08	3.18

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.

[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.

[3] *Elemental Concentrations in Soils and Other Surficial Materials of the Conterminous United States, U.S. Geological Survey Professiona Paper 1270*, 1982.

[4] Site-specific upper tolerance limit for Arsenic.

NR – Analyte not requested for testing.

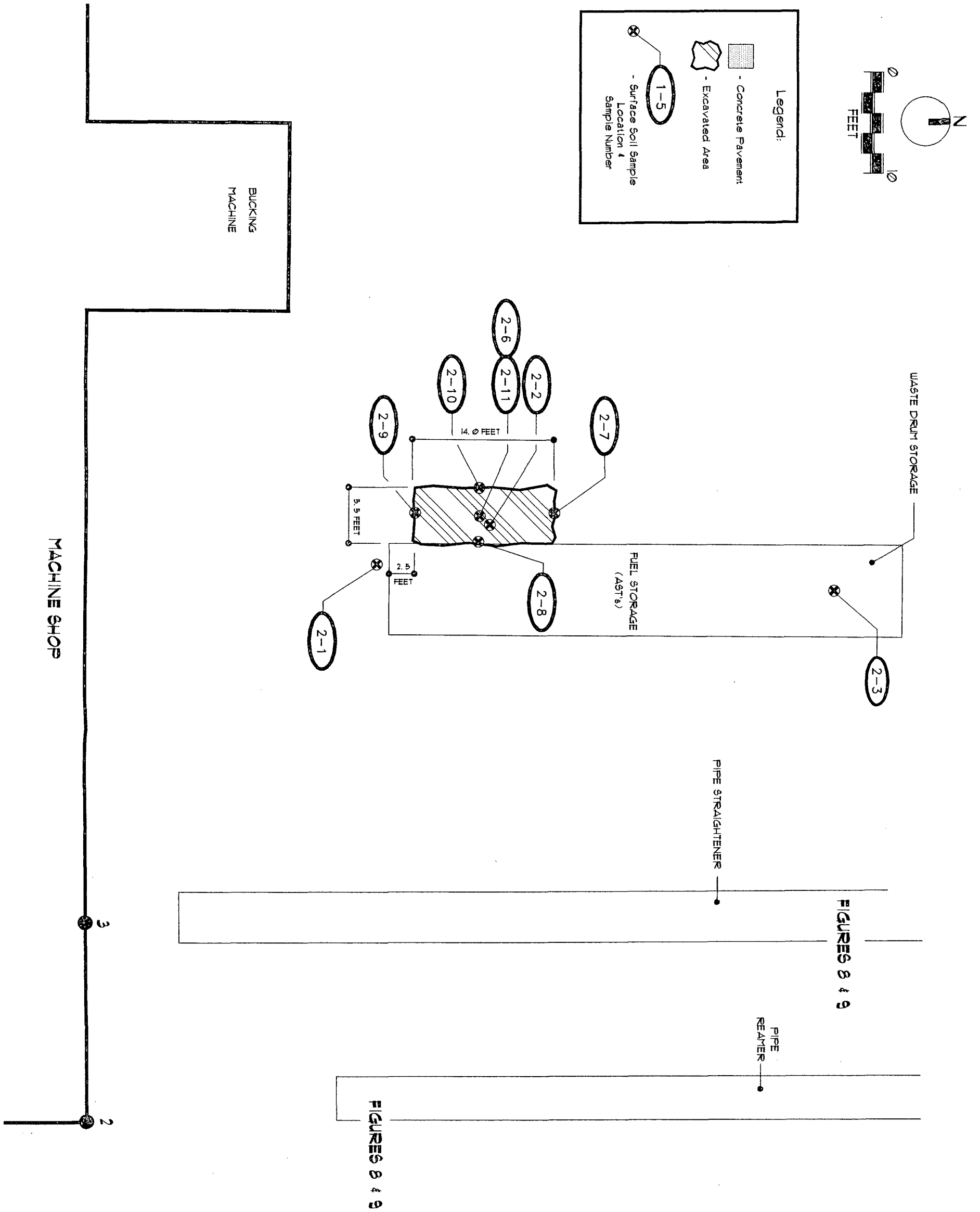
TABLE 7
SOUTHWEST CORNER OF THE MACHINE SHOP BUILDING SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2005
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-1-67	NM-HB-DRL-1-68	NM-HB-DRL-1-69
Assessment Area			1	1	1
Metals / Sample Depth (Ft)			0.5	0.5	0.5
Diesel Range (DRO, C10-C28)	---	--	143	< 3.5	< 3.2
Oil Range (ORO, >C28-C35)	---	--	78.3	< 3.5	< 3.2
Total TPH Ranges	880 / 2,200	--	221.3	< 3.5	< 3.2

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.

7.3 The Fuel and Product Storage Area

The Phase II ESA identified elevated Arsenic COCs along the west side of the fuel and product storage area that exceeded critical SSLs. On June 23, 2005, a 14-foot long by 5.5-foot wide area near the fuel storage tanks was excavated to a depth of two feet. Following excavation work, six confirmation soil samples, 2-6 through 2-11, were taken in native soils along the floor and sidewalls (See Figure 7). These soil samples were submitted for laboratory analysis and the findings are presented in Table 8 on Page 28. None of the soil samples exceeded critical industrial SSLs. One soil sample, 2-8, located along the east side wall and underneath the concrete foundation exceeded the residential SSL with a concentration of 10 mg/Kg.



3-D

FIGURE 7
AREA 2—NORTH OF MACHINE SHOP
REMEDIATION PLAN

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

TABLE 8
FUEL STORAGE AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON JUNE 23, 2004
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Site Specific BACKGOUND SOIL CONC.[3]	Direct Contact Residential Soil / Industrial Soil[1]	Soil to GW[1] DAF 20[2]	NM-HB-DRL-2-6	NM-HB-DRL-2-7	NM-HB-DRL-2-8	NM-HB-DRL-2-9	NM-HB-DRL-2-10	NM-HB-DRL-2-11
Assessment Area				2	2	2	2	2	2 (Duplicate of 2-6)
Metals / Sample Depth (Ft)				2.0	0.5	0.5	0.5	0.5	0.5
Arsenic	7.36[2]	3.9 / 17.7	58.3	6.33	7.07	10.0	4.84	6.29	6.46

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] DAF, Dilution Attenuation Factor is the ratio of the contaminant concentration in soil leachate to the concentration in ground water at the point of withdrawal.

7.4 The Pipe Straightener Area and the Pipe Reamer Area

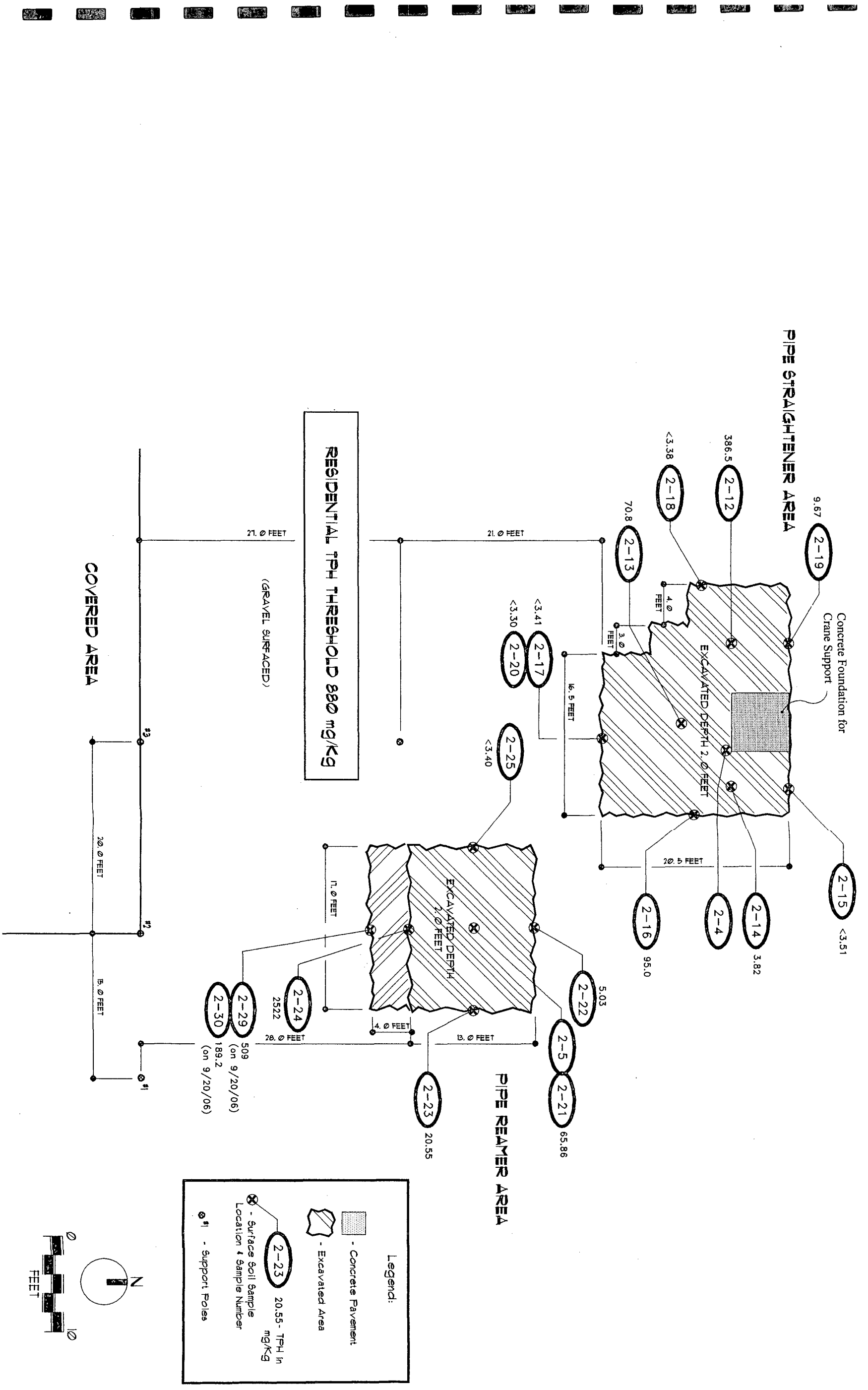
The pipe straightener and pipe reamer areas were located to the east of the fuel storage area and to the north of the covered work area of the machine shop (See Figure 7). The Phase II ESA documented oil-stained ground located beneath the hydraulic hose connections of the equipment. Soil samples 2-4 and 2-5, collected during this assessment phase, confirmed the presence of TPH-DRO and TPH-ORO COCs exceeding industrial SSLs and Arsenic COCs exceeding residential SSLs.

Remediation by soil excavation was conducted in two phases beginning on August 30, 2006 and completed on September 20, 2006. Remediation services were initially delayed at these specific locations (approximately one year) until the equipment and the utility lines were properly removed to allow soil excavation.

Pipe Straightener Area

The hydrocarbon stained soil at the pipe straightener area was confined to an area located around a concrete crane support foundation. The maximum excavation dimensions measured 23.5 feet long (east to west) by 20.5 feet wide by two feet deep. Confirmation soil samples consisted of five floor samples (2-12 to 2-14 and 2-26 to 2-27) and six sidewall samples (2-15 to 2-20) as shown on Figures 8 and 9. The confirmation soil samples were submitted for laboratory analysis for TPH and Arsenic. The analytical findings are presented in Table 9 on Pages 30 and 31. None of the soil samples exceeded critical residential SSLs for either TPH or Arsenic COCs (other than sample 2-12).

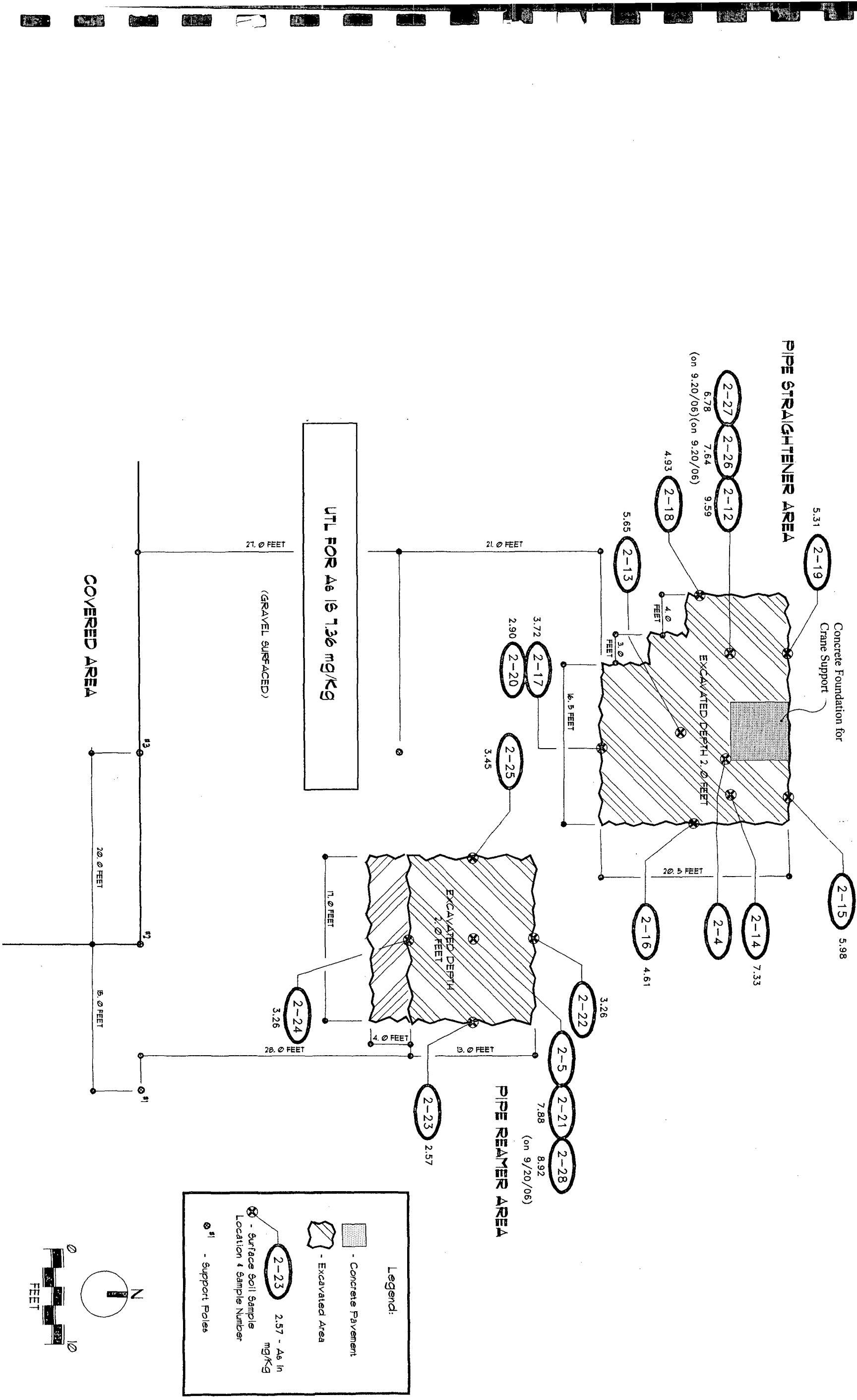
A second phase of soil excavation and confirmation soil sampling on September 20, 2006 was conducted at sample location 2-12 to bring the Arsenic COC concentration at the pipe straightener unit to less than the critical residential SSL of 7.36 mg/Kg. The two confirmation samples at this spot, 2-26 and 2-27 (duplicate sample of 2-26), straddled this value, 7.64 and 6.78 mg/Kg, respectively.



3-D

FIGURE 8
TPH CONCENTRATION PLAN
ON 8/30/06

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico



3-D

FIGURE 9
ARSENIC CONCENTRATION PLAN
ON 8/30/06

SMITH Services, Drilco Facility
1120 West Bender Road
Hobbs, New Mexico

TABLE 9
PIPE STRAIGHTENER AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON AUGUST 30, 2006 AND SEPTEMBER 20, 2006
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Site Specific Backgound Soil Conc.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-2-12	NM-HB-DRL-2-13	NM-HB-DRL-2-14	NM-HB-DRL-2-15	NM-HB-DRL-2-16	NM-HB-DRL-2-17
Assessment Area				2	2	2	2	2	2
Metals / Sample Depth (Ft)				2.0	2.0	2.0	1.0 to 1.5	1.0 to 1.5	1.0 to 1.5
Diesel Range (DRO, C10-C28)	--	---	--	355	56.0	3.82	< 3.51	70.9	< 3.41
Oil Range (ORO, >C28-C35)	--	---	--	31.5	14.8	< 3.13	< 3.51	24.1	< 3.41
Total TPH Ranges	--	880 / 2,200	--	386.5	70.8	3.82	< 3.51	95.0	< 3.41
Arsenic	7.36	3.9 / 17.7	58.3	9.59	5.65	7.33	5.98	4.61	3.72

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
NR – Analyte not requested for testing.

TABLE 9
PIPE STRAIGHTENER AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON AUGUST 30, 2006
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Site Specific Backgound Soil Conc.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-2-18	NM-HB-DRL-2-19	NM-HB-DRL-2-20	NM-HB-DRL-2-26	NM-HB-DRL-2-27
Assessment Area				2	2	2	2	2
Metals / Sample Depth (Ft)				1.0 to 1.5	1.0 to 1.5	1.0 to 1.5	2.5	2.5
Diesel Range (DRO, C10-C28)	--	---	--	< 3.38	9.67	< 3.30	NR	NR
Oil Range (ORO, >C28-C35)	--	---	--	< 3.38	< 3.60	< 3.30	NR	NR
Total TPH Ranges	--	880 / 2,200	--	< 3.38	9.67	< 3.30	NR	NR
Arsenic	7.36	3.9 / 17.7	58.3	4.93	5.31	2.90	7.64	6.78

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
NR – Analyte not requested for testing.

Pipe Reamer Area

Similar to the pipe straightener area, the hydrocarbon stained soil at the pipe reamer area was confined to an area located around the former equipment hydraulic hose connections. The final soil remediation excavation dimensions at the pipe reamer measured 17 feet square by two feet deep. Confirmation soil samples consisted of two floor samples (2-21 and 2-28) and six sidewall samples (2-22 to 2-25 and 2-29 to 2-30) as shown on Figures 8 and 9. The confirmation soil samples were submitted for laboratory analysis for TPH and / or Arsenic. The analytical findings are presented in Table 10 on Pages 33 and 34. None of the soil samples exceeded critical industrial SSLs for either TPH or Arsenic COCs.

TABLE 10
PIPE REAMER AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON AUGUST 30, 2006
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Site Specific Backgound Soil Conc.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-2-21	NM-HB-DRL-2-22	NM-HB-DRL-2-23	NM-HB-DRL-2-24	NM-HB-DRL-2-25
Assessment Area				2	2	2	2	2
Metals / Sample Depth (Ft)				2.0	1.0 to 1.5	1.0 to 1.5	1.0 to 1.5	1.0 to 1.5
Diesel Range (DRO, C10-C28)	--	---	--	62.5	5.03	16.6	2,290	< 3.40
Oil Range (ORO, >C28-C35)	--	---	--	3.36	< 3.37	4.49	232	< 3.40
Total TPH Ranges	--	880 / 2,200	--	65.86	5.03	20.09	2522	< 3.40
Arsenic	7.36	3.9 / 17.7	58.3	7.88	3.26	2.57	3.26	3.45

Note: [1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.

TABLE 10
PIPE REAMER AREA SUMMARY TABLE
SUMMARY OF LABORATORY ANALYTICAL DATA FOR ARSENIC AND TPH
SMITH SERVICES, DRILCO FACILITY, 1120 WEST BENDER ROAD, HOBBS, NEW MEXICO
SAMPLES COLLECTED ON SEPTEMBER 20, 2006
(Concentrations expressed as milligrams per kilogram, mg/kg)

COC / SAMPLE ID	Site Specific Backgound Soil Conc.[3]	Direct Contact Residential Soil / Industrial Soil[1,2]	Soil to GW[1] DAF 20	NM-HB-DRL-2-28	NM-HB-DRL-2-29	NM-HB-DRL-2-30
Assessment Area				2	2	2
Metals / Sample Depth (Ft)				2.0	1.0 to 1.5	1.0 to 1.5
Diesel Range (DRO, C10-C28)	--	---	--	NR	346	243
Oil Range (ORO, >C28-C35)	--	---	--	NR	163	46.2
Total TPH Ranges	--	880 / 2,200	--	NR	509	289.2
Arsenic	7.36	3.9 / 17.7	58.3	8.92	NR	NR

Note:[1] New Mexico Environmental Department (NMED) Soil Screening Levels (SSLs), Table A-1, *Technical Background Document for Development of Soil Screening Levels*, Revision 2.0, February 2004.
[2] *NMED TPH Screening Guidelines, June 24, 2003*, 4 pages.
NR – Analyte not requested for testing.

8.0 SITE RESTORATION AND SOIL DISPOSAL

All on-site excavations were backfilled with clean grayish brown sandy gravel soil. Composite soil samples of the clean fill material were randomly sampled for both TPH and heavy metal elements or TPH and Arsenic as the truck transports delivered the soil to the facility. The laboratory analytical data sheets of the clean fill are provided in Appendix I. The fill material originated from Wallach Concrete and Materials Company located in Hobbs, New Mexico.

The remediation excavations created in 2005 were backfilled and compacted on September 13, 2005 and October 2005. The 2006 excavated areas were restored to surface grade level with clean fill on October 10, 2006.

Composite soil samples were collected from the soil stockpile generated by the soil remediation activities. The composite samples were analyzed for TCLP metals, TCLP SVOCs, TCLP VOCs, TPH, reactivity, corrosivity, and ignitibility for disposal characterization (Appendix I). The 143 cubic yards of stockpiled soil was loaded on to haul trucks on May 17, 2007 and transported to the Sundance Services Inc. landfill facility located in Eunice, New Mexico for disposal. The non-hazardous waste manifests are provided in Appendix J.

9.0 CONCLUSIONS AND RECOMMENDATIONS

On the basis of the findings of the continued Phase II ESA and soil remediation conducted at the former SMITH Services, Drilco facility, the conclusions are as follows:

- The underlying soils consist of a surface layer of gravel base material underlain by an approximately one- to three-foot layer of brown to dark brown silty loam that transitioned into a dry dark brown clayey loam at the base of the soil horizon. A light brown limestone or hard caliche stratum was intercepted beneath the loamy soil layer. Shallow ground water was not intercepted.

- The findings of the continued Phase II ESA and vertical delineation assessment conducted on May 17, 2005 showed that the native surface soils at the former wellhead location, the former tank battery site, the former reserve pit, and the former scrap metal bin either did not contain contaminant COCs or detected contaminants were less than critical residential SSLs. The soil sample from boring B4 (at former sample location 2-3) showed a decline in the Tetrachloroethene concentration (from 0.00843 mg/Kg to 0.0037 mg/Kg) and is less than the critical soil to ground water SSL of 0.00644 mg/Kg.

- A site-specific Arsenic background concentration was developed for the SMITH Services, Drilco facility. The southern perimeter of the property was considered an area that has not been impacted by industrial activity. The calculated Arsenic site specific upper tolerance limit is 7.36 mg/Kg.

- On-site locations were identified during a previous Phase II ESA showing soil impacts that exceeded the critical industrial SSLs for TPH-DRO / ORO, certain heavy metal elements, and SVOC COCs. Soil remediation by excavation was conducted over an approximate two-year period beginning on May 17, 2005 and concluding on May 17, 2007 with the proper disposing of contaminated soils.

- All excavations were backfilled with clean sandy gravel fill. The 143 cubic yards of stockpiled soil was loaded onto haul trucks on May 17, 2007 and transported to an approved NMEM landfill (Sundance Services Inc. landfill) located in Eunice, New Mexico for disposal.

- Soil remediation by excavation within the covered work area of the Machine Shop reduced the concentration of TPH, SVOC, and heavy metal element COCs to less than the critical residential SSLs. The covered work areas were identified in the report as 1. the Machine Lathe Area, 2. the North Bucking Machine Shed, and 3. the Southwest Corner.

- Soil remediation by excavation was conducted within the area identified as the Southwest Corner of the Machine Shop Building near a former drill pipe bucking machine. Six small areas were identified as containing elevated TPH and Arsenic COCs. Following remediation work, confirmation soil sample laboratory analysis showed that the residual soil concentrations at each area were less than critical residential SSLs.

- Soil excavation work conducted along the west side of the Fuel and Product Storage Area reduced Arsenic COCs to less than the critical industrial SSL. Laboratory test results of the confirmation soil samples showed that Arsenic concentrations were less than the critical residential SSL, except for the east sidewall soil sample which was located beneath the concrete flooring.

- Soil remediation by excavation at the Pipe Straightener Area removed TPH and Arsenic affected soil. Confirmation soil samples and laboratory testing on the floor and sidewall soil samples showed COCs at less than critical residential SSLs.

- Remediation work consisting of soil excavation at the Pipe Reamer Area reduced TPH COC concentrations in the native soil to less than the critical residential SSLs. Confirmation soil sampling and analysis showed that residual Arsenic COC concentrations were less than the critical industrial SSL.

On the basis of the findings and conclusions presented above, no further assessment or soil remediation is recommended at this time. All of the remediated areas meet either critical residential or critical industrial SSLs.

PHOTOGRAPHS



Photograph 1: A view of the southwest machine shop excavation (covered area).



Photograph 2: The pipe straightener area prior to excavation work.



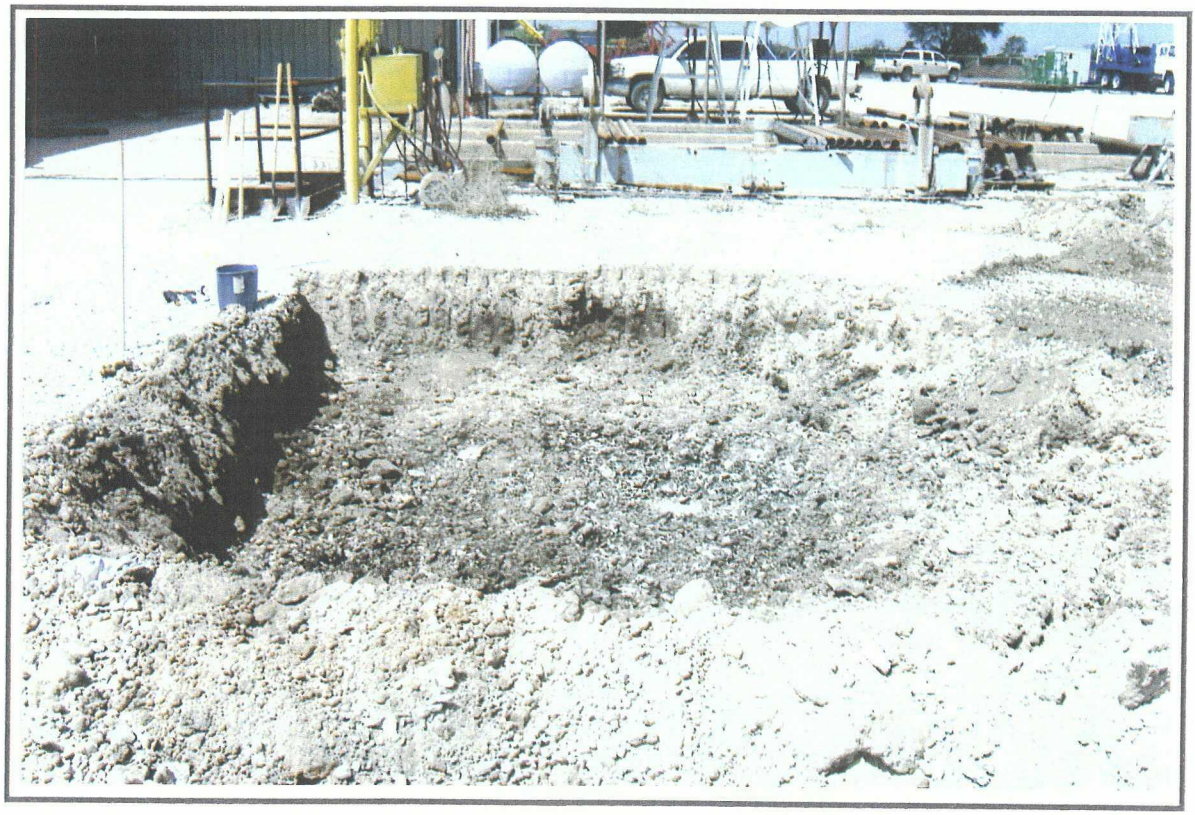
Photograph 3: Looking to the south at the west half of the pipe straightener area on August 30, 2006.



Photograph 4: The east half of the pipe straightener area as viewed to the south.



Photograph 5: Facing north at the pipe straightener area excavation.



Photograph 6: A west view of the pipe reamer excavation.



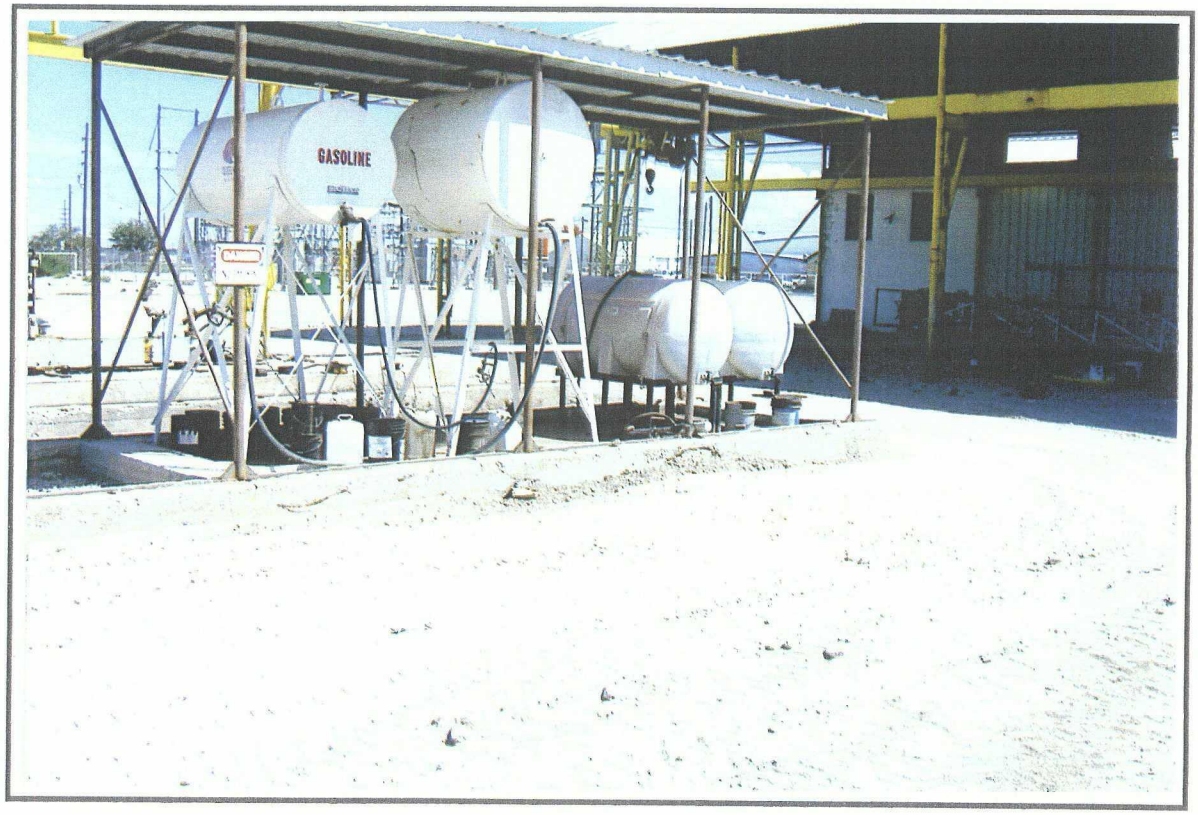
Photograph 7: Facing northwest toward the pipe reamer and pipe straightener excavations.



Photograph 8: A west view of the bucking machine shed area after backfilling and compaction on September 13, 2006.



Photograph 9: The southwest corner of the machine shop building after backfilling and compacting clean fill in former excavations.



Photograph 10: The west side of the fuel storage area (AST locations) after backfilling and compacting clean fill.

APPENDICES

APPENDIX A

Soil Boring Logs

SOIL BORING LOG

PAGE 1 OF 1

3-D ENVIRONMENTAL PROJECT NO	# 110403	LOCATION	SMITH SERVICES, DRILCO - HOBBS, NEW MEXICO FACILITY
BORING NUMBER	NM-HB-DRL-4-BI	WEATHER	SUNNY 70's
DRILLING DATE	17 MAY 2005	DRILLED BY	ESN - SOUTH
LOGGED BY	K. LAMPI	DRILLING METHOD	DIRECT PUSH TECHNOLOGY (STRATAPROBE)

LOCATION: FACILITY STORAGE YARD; EAST PROPERTY BOUNDARY, NEAR FORMER WELLHEAD

BORING DIAMETER

TOTAL DEPTH 1.8 FEET

SAMPLE NUMBER	REMARK CODE	SAMPLE RECOVERY	SAMPLE INTERVAL	LITHOLOGY	DEPTH (FEET)	LITHOLOGY/REMARKS
					0	
		1.8/ 1.8			0.5	BROWN TO DARK BROWN SILTY LOAM, MOIST, UNIFORM MATRIX, WELL SORTED, NO ROOTLETS
	A				1.0	
					1.5	WHITE TO LIGHT BROWN LIMESTONE OR VERY DENSE CALICHE, VERY HARD
					1.8 (FEET)	TD @ 1.8 FEET (REFUSAL)

GRAPHIC LOG LEGEND

- THIN-WALL TUBE SAMPLING
- LOAM
- LIMESTONE

REMARKS: A: SOIL SAMPLE #NM-HB-DRL-4-BI-0102 AT 1.0 TO 2.0 FEET

HOBBS.DWG 25JUNE07

SOIL BORING LOG

PAGE 1 OF 1

3-D ENVIRONMENTAL PROJECT NO	# 110403	LOCATION	SMITH SERVICES, DRILCO - HOBBS, NEW MEXICO FACILITY
BORING NUMBER	NM-HB-DRL-4-B2	WEATHER	SUNNY 70's
DRILLING DATE	17 MAY 2005	DRILLED BY	ESN - SOUTH
LOGGED BY	K. LAMPI	DRILLING METHOD	DIRECT PUSH TECHNOLOGY (STRATAPROBE)

LOCATION: FACILITY STORAGE YARD; AT FORMER CRUDE OIL STORAGE TANK BATTERY

BORING DIAMETER

TOTAL DEPTH 1.1 FEET

SAMPLE NUMBER	REMARK CODE	SAMPLE RECOVERY	SAMPLE INTERVAL	LITHOLOGY	DEPTH (FEET)	LITHOLOGY/REMARKS
	A	1.8/ 1.8			0	BROWN SILT TO SILTY LOAM, UNIFORM, WELL SORTED, DRY
					0.5	
					1.0	WHITE TO LIGHT BROWN LIMESTONE/CALICHE ROCK, VERY HARD
					1.1 (FEET)	TD @ 1.1 FEET (REFUSAL)

GRAPHIC LOG LEGEND

- THIN-WALL TUBE SAMPLING
- LOAM
- LIMESTONE

REMARKS: A: SOIL SAMPLE #NM-HB-DRL-4-B2-0001 AT 0.0 TO 1.0 FEET

HOBBS.DWG 25JUNE07

SOIL BORING LOG

PAGE 1 OF 1

3-D ENVIRONMENTAL PROJECT NO	# 110403	LOCATION	SMITH SERVICES, DRILCO - HOBBS, NEW MEXICO FACILITY
BORING NUMBER	NM-HB-DRL-4-B3	WEATHER	SUNNY 70's
DRILLING DATE	17 MAY 2005	DRILLED BY	ESN - SOUTH
LOGGED BY	K. LAMPI	DRILLING METHOD	DIRECT PUSH TECHNOLOGY (STRATAPROBE)

LOCATION: FACILITY STORAGE YARD; FORMER RESERVE PIT

BORING DIAMETER

TOTAL DEPTH 3.2 FEET

SAMPLE NUMBER	REMARK CODE	SAMPLE RECOVERY	SAMPLE INTERVAL	LITHOLOGY	DEPTH (FEET)	LITHOLOGY/REMARKS
					0	
						BROWN SILT AND GRAVEL BASE
					0.5	
					1.0	
		2.7/ 3.0				DARK BROWN SILTY LOAM, UNIFORM, WELL SORTED, FIRM, MOIST, NO ROOTLETS
					1.5	
					2.0	
	A				2.5	
						DARK BROWN SILTY CLAYEY LOAM, VERY FIRM TO STIFF, DRY, UNIFORM
		0.2/ 0.2			3.0	
					3.2 (FEET)	TD @ 3.2 FEET (REFUSAL)

GRAPHIC LOG LEGEND

- THIN-WALL TUBE SAMPLING
- LOAM
- BASE MATERIAL

REMARKS: A: SOIL SAMPLE #NM-HB-DRL-4-B3-0203 AT 2.0 TO 3.0 FEET

HOBBS.DWG 25JUNE07

SOIL BORING LOG

PAGE 1 OF 1

3-D ENVIRONMENTAL PROJECT NO	# 110403	LOCATION	SMITH SERVICES, DRILCO - HOBBS, NEW MEXICO FACILITY
BORING NUMBER	NM-HB-DRL-4-B4	WEATHER	SUNNY 70's
DRILLING DATE	17 MAY 2005	DRILLED BY	ESN - SOUTH
LOGGED BY	K. LAMPI	DRILLING METHOD	DIRECT PUSH TECHNOLOGY (STRATAPROBE)

LOCATION: FACILITY STORAGE YARD; AST & DRUM STORAGE AREA, AT SAMPLE POINT 2-3

BORING DIAMETER

TOTAL DEPTH 1.5 FEET

SAMPLE NUMBER	REMARK CODE	SAMPLE RECOVERY	SAMPLE INTERVAL	LITHOLOGY	DEPTH (FEET)	LITHOLOGY/REMARKS
					0	
		1.5/ 1.5			0.5	BROWN SILTY LOAM, UNIFORM, WELL SORTED, DRY
A					1.0	DARK BROWN CLAYEY LOAM, UNIFORM, MOIST, LIMESTONE FRAGMENTS AT 1.3 FEET TO 1.5 FEET
					1.5 (FEET)	TD @ 1.5 FEET (REFUSAL)

GRAPHIC LOG LEGEND

- THIN-WALL TUBE SAMPLING
- LOAM
- LIMESTONE

REMARKS: A: SOIL SAMPLE #NM-HB-DRL-4-B4-0102 AT 1.0 TO 2.0 FEET

HOBBS.DWG 25JUNE07

APPENDIX B

Field Assessment Procedures

FIELD ASSESSMENT PROCEDURES

The media of interest and the sampling methods and protocol are described in this attachment.

A.1 Sampling Equipment

The following is a list of sampling equipment that were used during field activities:

- A Geoprobe® or similar direct-push type soil sampling system;
- Laboratory-supplied containers (i.e., sample jars) for collection of soil samples targeted for laboratory analyses;
- Quality Assurance/Quality Control (QA/QC) samples (e.g., duplicate sample);
- Phosphate-free soap, potable water and deionized water for equipment decontamination;
- U.S. Oil Co. Inc. "Easydraw" syringe (for volatile organic analysis);
- A polyresin trowel;
- Disposable latex and/or nitrile gloves;
- Sample shipping containers (e.g., coolers)

A.2 Soil Sampling Procedures

This section outlines soil sampling procedures followed.

A.2.1 Geoprobe® Sampling Procedures

The Geoprobe® or similar device is a direct-push type sampling machine used to collect soil and/or ground-water samples. The machine advances a soil probe by means of a hydraulic hammer that drives the sampler vertically into the ground. Soil samples were collected using a 1.5-inch diameter, 36-inch or 48-inch long sampling tube with dedicated, disposable acetate liners. Use of a releasable plunger inside the tube allows the sampler to be advanced to the desired depth and a discrete sample to be collected.

A.2.2 Soil Sample Screening and Collection Procedures

After retrieving the sampling tube, the liners were cut open and the soil sample field screened by the geologist. The geologist generally selected a "worst-case" soil sample from each location based on the following criteria:

(1) appeared to exhibit the most prominent staining,
(2) exhibited the strongest potential chemical odor (or, in the absence of an apparent chemical odor, the strongest anomalous odor, as observed by the geologist)
(3) Located at or below the bottom of the below ground tank or vessel of concern,
(4) Located at a specific soil horizon of interest (for example, a fill and native soil contact).

All soil samples were collected above the water table. After sample collection, the soil was visually classified by the geologist and described on the appropriate field sampling form. The soil samples submitted to the laboratory for analytical testing were collected using a clean one-use disposal gloves and/or U.S. Oil Co. Inc. "Easydraw" syringe (for volatile organic analysis) and placed in either laboratory supplied jars or vials. A polyresin trowel used to break open the soil core was decontaminated between sample points by using a nonphosphate soap wash, distilled water rinse, and air drying.

A.2.3 Boring Abandonment

Following advancement of the borings and collection of soil samples, the borings were abandoned by backfilling them with bentonite chips that were subsequently hydrated with clean water. The surface areas at each boring were patched with concrete.

A.3 *Equipment Decontamination*

Equipment involved in field sampling activities was decontaminated prior to drilling, sampling or leaving the facility. During soil sampling, decontamination of the sampling equipment was conducted between each sample interval and include the following:

- The removal of visible sediment using a brush and non-phosphatic soap and potable water mixture; and,
- Distilled water rinse.

A.4 Chain-of-Custody Procedures

Formal chain-of-custody began when the pre-cleaned sample containers arrived in the field in laboratory supplied and sealed cooler. At the time of sample collection, the labeled samples were placed into an iced cooler. A line-item chain-of-custody form was completed by the sampler. Upon completion of all line items, the sampler signed, dated, listed the time, and confirmed the completeness of all descriptive information contained on the form. One copy of the completed chain-of-custody was retained by the sampler. The following items were included on the chain-of-custody:

- Sample identification;
- Signature of sampler;
- Date and time of collection;
- Sample type (i.e., aqueous or soil);
- Sample location;
- Number, size and type of containers;
- Analytical parameters requested;
- Preservative;
- Signatures of personnel involved in the chain-of-custody of possession; and,
- Dates and times of relinquishment and receipt.

A.5 QA/QC Samples (Only if requested by client or required by agency)

A QA/QC sample was collected to assess the quality and precision of the laboratory data resulting from soil sampling. The QA/QC sample was a duplicate soil sample.

APPENDIX C

Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on May 17, 2005

DHL ANALYTICAL

May 26, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii, Smith Services Drilco-Hobbs, ESA/RE

Order No.: 0505120

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 6 samples on 5/18/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii, Smith Services Drilco-Hobbs, NM (DHL Work Order 0505120) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Case Narrative	6-7
• Work Order Sample Summary	8
• Preparation Dates Report	9-10
• Analytical Dates Report	11-12
• Sample Results	13-39
• QC Summary Report	40-64
• Total Number of Pages	64

May 27, 2005

Approved: _____
John DuPont

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 20161

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Box 60068, Houston, TX 77205-0068
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi email: KLAMPI@cox.net

DATE: 17 May 2005 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0505120
PROJECT LOCATION OR NAME: Sii, Smith Services Drilco-Hobbs, NM
CLIENT PROJECT #: Drilco Hobbs 110403 COLLECTOR: K. Lampi ESA/REM

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass P-Plastic Syringe

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☒	DIESEL - MOD 8015 ☒ 3 NM	VOC 8260 ☒	SVOC 8270 ☒ 5035	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	PAH 8270 ☐ HOLDPAH ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☒ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☒ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
4-B1-0102	01	5/17	1000	S	G,P	8				X			X	X	X	X					X			X						
4-B2-0001	02	5/17	1015	S	G,P	8				X			X	X	X	X					X			X						
4-B3-0203	03	5/17	1030	S	G,P	19				X			X	X	X	X					X			X						
2-B4-0102	04	5/17	1110	S	G,P	4				X					X															
4-B3-0304	-05	5/17	1120	S	G,P	8				X			X	X	X	X					X			X						
4-2	06	5/17	1130	S	G,P	8				X			X	X	X	X					X			X						
TOTAL																														

RELINQUISHED BY: (Signature) Kent M. Lampi DATE/TIME 5/17/05 1600 RECEIVED BY: (Signature) FDX

RELINQUISHED BY: (Signature) FDX DATE/TIME 5.18.5 0815 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5 5.5 THERM #: 12
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FEDX
☐ APC DELIVERY
☐ HAND DELIVERED



FedEx Express USA Airbill

FedEx Tracking Number 8398 9314 4404

Form I.D. No. 0200

1 From

Date 5/17/05

Sender's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted] Dept./Floor/Suite/Room

City [redacted] State [redacted] ZIP [redacted]

2 Your Internal Billing Reference [redacted]

3 To

Recipient's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted]
To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address [redacted] Dept./Floor/Suite/Room

City [redacted] State [redacted] ZIP [redacted]

8398 9314 4404

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling — Include FedEx address in Section 3

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Obtain Recip. Acct. No.
- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	[redacted]	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

Rev. Date 10/01 • Part #157611 • ©1994–2001 FedEx • PRINTED IN U.S.A. WCSE 03

446

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 5/18/2005

Work Order Numbe 0505120 | Received by MLW

Checklist completed by [signature] Signature 5/18/05 Date | Reviewed by JD Initials 5/18/05 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked b _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM
Lab Order: 0505120

CASE NARRATIVE

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method SW8270C - Semi-volatile Organics
Method SW7471A - Mercury Analysis
Method SW8260B - Volatile Organics
Method M8015D - Diesel and Organic Range Organics
Method M8015V - Gasoline Range Organics
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 5/18/05. A total of 6 samples were received. The samples arrived in good condition and were properly packaged.

VOLATILE ORGANICS

For Volatile organic analysis the ICV was above control limits for Bromomethane. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

For Volatile organic analysis the matrix spike and matrix spike duplicate recoveries were below control limits for Chlorobenzene and/or Toluene. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were required and no sample results were adversely affected.

SEMI-VOLATILE ORGANICS

For Semi-volatile organics the LCS was above control limits for Hexachlorocyclopentadiene. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

DRO ANALYSIS

For DRO analysis the surrogate recovery for the ICV was below control limits for Octacosane. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

GRO ANALYSIS

For GRO analysis the surrogate recovery for the samples, matrix spike and matrix spike duplicate were

above control limits for a,a,a-Trifluorotoluene. The samples were re-prepared and analyzed with the same result. This confirms matrix interference. No further corrective actions were taken.

METALS ANALYSIS

For Metals analysis the matrix spike and matrix spike duplicate recoveries were below control limits for Barium. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

For Metals analysis the RPD for the serial dilution was above control limits for Chromium. The PDS was within control limits for this analyte therefore no further corrective actions were taken.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM
Lab Order: 0505120

Work Order Sample Summary

Lab Sam I	Client Sample ID	Tag Number	Collection Date	Date Recved
0505120-01	NM-HB-DRL-4-B1-0102		5/17/2005 10:00:00 AM	5/18/2005
0505120-02	NM-HB-DRL4-B2-0001		5/17/2005 10:15:00 AM	5/18/2005
0505120-03	NM-HB-DRL-4-B3-0203		5/17/2005 10:30:00 AM	5/18/2005
0505120-04	NM-HB-DRL-2-B4-0102		5/17/2005 11:10:00 AM	5/18/2005
0505120-05	NM-HB-DRL-4-B3-0304		5/17/2005 11:20:00 AM	5/18/2005
0505120-06	NM-HB-DRL-4-2		5/17/2005 11:30:00 AM	5/18/2005

Lab Order: 0505120
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0505120-01A	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-01B	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
0505120-01C	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	5/19/2005 9:00:00 AM	19147
	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505120-01D	NM-HB-DRL-4-B1-0102	5/17/2005 10:00:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A
0505120-02A	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-02B	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
0505120-02C	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	5/19/2005 9:00:00 AM	19147
	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505120-02D	NM-HB-DRL4-B2-0001	5/17/2005 10:15:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A
0505120-03A	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-03B	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
0505120-03C	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	5/19/2005 9:00:00 AM	19147
	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196

Lab Order: 0505120
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0505120-03D	NM-HB-DRL-4-B3-0203	5/17/2005 10:30:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A
0505120-04A	NM-HB-DRL-2-B4-0102	5/17/2005 11:10:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-04B	NM-HB-DRL-2-B4-0102	5/17/2005 11:10:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A
0505120-05A	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-05B	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
0505120-05C	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	5/19/2005 9:00:00 AM	19147
	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505120-05D	NM-HB-DRL-4-B3-0304	5/17/2005 11:20:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A
0505120-06A	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW5035	Purge and Trap 5035	5/23/2005 4:01:57 PM	19201
0505120-06B	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	5/24/2005 8:48:17 AM	19205
0505120-06C	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW7471A	Mercury Soil Prep, Total	5/19/2005 9:00:00 AM	19147
	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505120-06D	NM-HB-DRL-4-2	5/17/2005 11:30:00 AM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 PM	PMOIST-5/19/05A

Lab Order: 0505120
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505120-01A	NM-HB-DRL-4-B1-0102	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/24/2005 1:54:00 AM	GCMS2_050523B
0505120-01B	NM-HB-DRL-4-B1-0102	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 1:27:33 PM	GC4_050524A
	NM-HB-DRL-4-B1-0102	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 5:54:33 PM	GC4_050524A
0505120-01C	NM-HB-DRL-4-B1-0102	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 6:04:00 PM	ICP-MS_050519A
	NM-HB-DRL-4-B1-0102	Soil	SW7471A	Total Mercury: Cold Vapor	19147	1	5/19/2005 4:51:54 PM	CETAC_HG_050519A
	NM-HB-DRL-4-B1-0102	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 5:50:39 PM	GC15_050523B
	NM-HB-DRL-4-B1-0102	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 9:09:00 PM	GCMS4_050524A
0505120-01D	NM-HB-DRL-4-B1-0102	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505120-02A	NM-HB-DRL4-B2-0001	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/24/2005 2:26:00 AM	GCMS2_050523B
0505120-02B	NM-HB-DRL4-B2-0001	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 2:35:20 PM	GC4_050524A
	NM-HB-DRL4-B2-0001	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 6:17:23 PM	GC4_050524A
0505120-02C	NM-HB-DRL4-B2-0001	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 6:08:00 PM	ICP-MS_050519A
	NM-HB-DRL4-B2-0001	Soil	SW7471A	Total Mercury: Cold Vapor	19147	1	5/19/2005 4:53:57 PM	CETAC_HG_050519A
	NM-HB-DRL4-B2-0001	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 6:16:30 PM	GC15_050523B
	NM-HB-DRL4-B2-0001	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 9:48:00 PM	GCMS4_050524A
0505120-02D	NM-HB-DRL4-B2-0001	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505120-03A	NM-HB-DRL-4-B3-0203	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/24/2005 1:20:00 AM	GCMS2_050523B
0505120-03B	NM-HB-DRL-4-B3-0203	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 6:40:08 PM	GC4_050524A
	NM-HB-DRL-4-B3-0203	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 12:19:28 PM	GC4_050524A
0505120-03C	NM-HB-DRL-4-B3-0203	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 5:19:00 PM	ICP-MS_050519A
	NM-HB-DRL-4-B3-0203	Soil	SW7471A	Total Mercury: Cold Vapor	19147	1	5/19/2005 4:56:01 PM	CETAC_HG_050519A
	NM-HB-DRL-4-B3-0203	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 10:58:15 AM	GC15_050523A
	NM-HB-DRL-4-B3-0203	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 1:14:00 PM	GCMS4_050524A

Lab Order: 0505120
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505120-03D	NM-HB-DRL-4-B3-0203	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505120-04A	NM-HB-DRL-2-B4-0102	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/24/2005 12:46:00 AM	GCMS2_050523B
0505120-04B	NM-HB-DRL-2-B4-0102	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505120-05A	NM-HB-DRL-4-B3-0304	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/24/2005 12:14:00 AM	GCMS2_050523B
0505120-05B	NM-HB-DRL-4-B3-0304	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 7:02:49 PM	GC4_050524A
	NM-HB-DRL-4-B3-0304	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 1:49:50 PM	GC4_050524A
0505120-05C	NM-HB-DRL-4-B3-0304	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 5:23:00 PM	ICP-MS_050519A
	NM-HB-DRL-4-B3-0304	Soil	SW7471A	Total Mercury: Cold Vapor	19147	1	5/19/2005 4:58:03 PM	CETAC_HG_050519A
	NM-HB-DRL-4-B3-0304	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 11:23:31 AM	GC15_050523A
	NM-HB-DRL-4-B3-0304	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 1:54:00 PM	GCMS4_050524A
0505120-05D	NM-HB-DRL-4-B3-0304	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505120-06A	NM-HB-DRL-4-2	Soil	SW8260B	Volatiles(5035) by GC/MS	19201	1	5/23/2005 11:42:00 PM	GCMS2_050523B
0505120-06B	NM-HB-DRL-4-2	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 7:25:31 PM	GC4_050524A
	NM-HB-DRL-4-2	Soil	M8015V	Modified 8015 Gasoline (GRO)	19205	1	5/24/2005 2:12:47 PM	GC4_050524A
0505120-06C	NM-HB-DRL-4-2	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 5:55:00 PM	ICP-MS_050519A
	NM-HB-DRL-4-2	Soil	SW7471A	Total Mercury: Cold Vapor	19147	1	5/19/2005 5:00:06 PM	CETAC_HG_050519A
	NM-HB-DRL-4-2	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 11:48:54 AM	GC15_050523A
	NM-HB-DRL-4-2	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 2:34:00 PM	GCMS4_050524A
0505120-06D	NM-HB-DRL-4-2	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B1-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:00:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1,1-Trichloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1,2,2-Tetrachloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1,2-Trichloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1-Dichloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1-Dichloroethene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,1-Dichloropropene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2,3-Trichlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2,3-Trichloropropane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2,4-Trichlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2,4-Trimethylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2-Dibromo-3-chloropropane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2-Dibromoethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2-Dichlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2-Dichloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,2-Dichloropropane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,3,5-Trimethylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,3-Dichlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,3-Dichloropropane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
1,4-Dichlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
2,2-Dichloropropane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
2-Butanone	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
2-Chloroethylvinylether	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
2-Chlorotoluene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
2-Hexanone	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
4-Chlorotoluene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
4-Methyl-2-pentanone	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Acetone	ND	26	64.9		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Benzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Bromobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Bromochloromethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Bromodichloromethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Bromoform	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Bromomethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Carbon disulfide	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Carbon tetrachloride	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Chlorobenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Chloroethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Chloroform	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Chloromethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B1-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:00:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
cis-1,3-Dichloropropene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Dibromochloromethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Dibromomethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Dichlorodifluoromethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Ethylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Hexachlorobutadiene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Iodomethane	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Isopropylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
m,p-Xylene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Methyl tert-butyl ether	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Methylene chloride	ND	6.5	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
n-Butylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
n-Propylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Naphthalene	ND	6.5	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
o-Xylene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
p-Isopropyltoluene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
sec-Butylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Styrene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
tert-Butylbenzene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Tetrachloroethene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Toluene	ND	2.6	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
trans-1,2-Dichloroethene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
trans-1,3-Dichloropropene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Trichloroethene	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Trichlorofluoromethane	ND	6.5	19.5		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Vinyl chloride	ND	1.3	6.49		µg/Kg-dry	1	5/24/2005 1:54:00 AM
Surr: 1,2-Dichloroethane-d4	113	0	52-149		%REC	1	5/24/2005 1:54:00 AM
Surr: 4-Bromofluorobenzene	107	0	65-135		%REC	1	5/24/2005 1:54:00 AM
Surr: Dibromofluoromethane	99.1	0	65-135		%REC	1	5/24/2005 1:54:00 AM
Surr: Toluene-d8	96.9	0	65-135		%REC	1	5/24/2005 1:54:00 AM
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
1,2-Dichlorobenzene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
1,3-Dichlorobenzene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
1,4-Dichlorobenzene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,4,5-Trichlorophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,4,6-Trichlorophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,4-Dichlorophenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,4-Dimethylphenol	ND	0.087	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B1-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:00:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
2,4-Dinitrophenol	ND	0.065	0.719		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,4-Dinitrotoluene	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2,6-Dinitrotoluene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Chloronaphthalene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Chlorophenol	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Methylnaphthalene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Methylphenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Nitroaniline	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
2-Nitrophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
3,3'-Dichlorobenzidine	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
3-Nitroaniline	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4,6-Dinitro-2-methylphenol	ND	0.087	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Chloro-3-methylphenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Chloroaniline	ND	0.054	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Methylphenol	ND	0.11	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Nitroaniline	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
4-Nitrophenol	ND	0.15	0.719		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Acenaphthene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Acenaphthylene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Aniline	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Anthracene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzo[a]anthracene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzo[a]pyrene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzo[b]fluoranthene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzo[g,h,i]perylene	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzo[k]fluoranthene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Benzyl alcohol	ND	0.044	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Bis(2-chloroethoxy)methane	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Bis(2-chloroethyl)ether	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Butyl benzyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Chrysene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Di-n-butyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Di-n-octyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Dibenz[a,h]anthracene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Dibenzofuran	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Diethyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B1-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:00:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Dimethyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Fluoranthene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Fluorene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Hexachlorobenzene	ND	0.011	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Hexachlorobutadiene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Hexachlorocyclopentadiene	ND	0.065	0.359		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Hexachloroethane	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Isophorone	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
N-Nitrosodi-n-propylamine	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Naphthalene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Nitrobenzene	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Pentachlorophenol	ND	0.098	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Phenanthrene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Phenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Pyrene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 9:09:00 PM
Surr: 2,4,6-Tribromophenol	95.3	0	60-153		%REC	1	5/24/2005 9:09:00 PM
Surr: 2-Fluorobiphenyl	97.3	0	70-135		%REC	1	5/24/2005 9:09:00 PM
Surr: 2-Fluorophenol	92.8	0	37-125		%REC	1	5/24/2005 9:09:00 PM
Surr: 4-Terphenyl-d14	95.0	0	69-128		%REC	1	5/24/2005 9:09:00 PM
Surr: Nitrobenzene-d5	98.5	0	45-125		%REC	1	5/24/2005 9:09:00 PM
Surr: Phenol-d6	95.3	0	40-125		%REC	1	5/24/2005 9:09:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	75.9	3.2	10.8		mg/Kg-dry	1	5/23/2005 5:50:39 PM
TPH-ORO >C28-C35	88.2	3.2	10.8		mg/Kg-dry	1	5/23/2005 5:50:39 PM
Surr: o-Terphenyl	80.3	0	47-142		%REC	1	5/23/2005 5:50:39 PM
Surr: Octacosane	81.7	0	25-162		%REC	1	5/23/2005 5:50:39 PM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.015	0.0386		mg/Kg-dry	1	5/19/2005 4:51:54 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.61	0.49	0.983		mg/Kg-dry	5	5/19/2005 6:04:00 PM
Barium	133	0.49	1.97		mg/Kg-dry	5	5/19/2005 6:04:00 PM
Cadmium	0.18	0.098	0.295	J	mg/Kg-dry	5	5/19/2005 6:04:00 PM
Chromium	9.18	0.49	1.97		mg/Kg-dry	5	5/19/2005 6:04:00 PM
Lead	5.50	0.098	0.295		mg/Kg-dry	5	5/19/2005 6:04:00 PM
Selenium	0.971	0.15	0.492		mg/Kg-dry	5	5/19/2005 6:04:00 PM
Silver	ND	0.098	0.197		mg/Kg-dry	5	5/19/2005 6:04:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B1-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:00:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GRO (M8015) OKLAHOMA		**M8015V**				Analyst: **AJR**	
Gasoline Range Organics	ND	0.062	0.207		mg/Kg-dry	1	5/24/2005 1:27:33 PM
Surr: a,a,a-Trifluorotoluene	132	0	59-121	S	%REC	1	5/24/2005 1:27:33 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.98	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL4-B2-0001
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:15:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1,1-Trichloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1,2,2-Tetrachloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1,2-Trichloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1-Dichloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1-Dichloroethene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,1-Dichloropropene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2,3-Trichlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2,3-Trichloropropane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2,4-Trichlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2,4-Trimethylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2-Dibromo-3-chloropropane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2-Dibromoethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2-Dichlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2-Dichloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,2-Dichloropropane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,3,5-Trimethylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,3-Dichlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,3-Dichloropropane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
1,4-Dichlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
2,2-Dichloropropane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
2-Butanone	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
2-Chloroethylvinylether	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
2-Chlorotoluene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
2-Hexanone	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
4-Chlorotoluene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
4-Methyl-2-pentanone	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Acetone	ND	22	55.3		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Benzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Bromobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Bromochloromethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Bromodichloromethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Bromoform	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Bromomethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Carbon disulfide	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Carbon tetrachloride	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Chlorobenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Chloroethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Chloroform	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Chloromethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT: SMITH INTERNATIONAL
Project Name: Sii, Smith Services Drilco-Hobbs, ESA/REM
Project No: Drilco Hobbs 110403
Lab Order: 0505120

Client Sample ID: NM-HB-DRL4-B2-0001
Lab ID: 0505120-02
Collection Date: 5/17/2005 10:15:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
cis-1,3-Dichloropropene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Dibromochloromethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Dibromomethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Dichlorodifluoromethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Ethylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Hexachlorobutadiene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Iodomethane	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Isopropylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
m,p-Xylene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Methyl tert-butyl ether	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Methylene chloride	ND	5.5	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
n-Butylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
n-Propylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Naphthalene	ND	5.5	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
o-Xylene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
p-Isopropyltoluene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
sec-Butylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Styrene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
tert-Butylbenzene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Tetrachloroethene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Toluene	ND	2.2	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
trans-1,2-Dichloroethene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
trans-1,3-Dichloropropene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Trichloroethene	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Trichlorofluoromethane	ND	5.5	16.6		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Vinyl chloride	ND	1.1	5.53		µg/Kg-dry	1	5/24/2005 2:26:00 AM
Surr: 1,2-Dichloroethane-d4	113	0	52-149		%REC	1	5/24/2005 2:26:00 AM
Surr: 4-Bromofluorobenzene	112	0	65-135		%REC	1	5/24/2005 2:26:00 AM
Surr: Dibromofluoromethane	100	0	65-135		%REC	1	5/24/2005 2:26:00 AM
Surr: Toluene-d8	100	0	65-135		%REC	1	5/24/2005 2:26:00 AM
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
1,2-Dichlorobenzene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
1,3-Dichlorobenzene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
1,4-Dichlorobenzene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,4,5-Trichlorophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,4,6-Trichlorophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,4-Dichlorophenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,4-Dimethylphenol	ND	0.088	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL4-B2-0001
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:15:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
2,4-Dinitrophenol	ND	0.066	0.727		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,4-Dinitrotoluene	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2,6-Dinitrotoluene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Chloronaphthalene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Chlorophenol	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Methylnaphthalene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Methylphenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Nitroaniline	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
2-Nitrophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
3,3'-Dichlorobenzidine	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
3-Nitroaniline	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4,6-Dinitro-2-methylphenol	ND	0.088	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Chloro-3-methylphenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Chloroaniline	ND	0.055	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Methylphenol	ND	0.11	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Nitroaniline	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
4-Nitrophenol	ND	0.15	0.727		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Acenaphthene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Acenaphthylene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Aniline	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Anthracene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzo[a]anthracene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzo[a]pyrene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzo[b]fluoranthene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzo[g,h,i]perylene	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzo[k]fluoranthene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Benzyl alcohol	ND	0.044	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Bis(2-chloroethoxy)methane	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Bis(2-chloroethyl)ether	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Butyl benzyl phthalate	ND	0.11	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Chrysene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Di-n-butyl phthalate	ND	0.11	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Di-n-octyl phthalate	ND	0.11	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Dibenz[a,h]anthracene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Dibenzofuran	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Diethyl phthalate	ND	0.11	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL4-B2-0001
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:15:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Dimethyl phthalate	ND	0.11	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Fluoranthene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Fluorene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Hexachlorobenzene	ND	0.011	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Hexachlorobutadiene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Hexachlorocyclopentadiene	ND	0.066	0.364		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Hexachloroethane	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Isophorone	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
N-Nitrosodi-n-propylamine	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Naphthalene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Nitrobenzene	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Pentachlorophenol	ND	0.099	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Phenanthrene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Phenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Pyrene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 9:48:00 PM
Surr: 2,4,6-Tribromophenol	98.3	0	60-153		%REC	1	5/24/2005 9:48:00 PM
Surr: 2-Fluorobiphenyl	99.0	0	70-135		%REC	1	5/24/2005 9:48:00 PM
Surr: 2-Fluorophenol	96.5	0	37-125		%REC	1	5/24/2005 9:48:00 PM
Surr: 4-Terphenyl-d14	98.3	0	69-128		%REC	1	5/24/2005 9:48:00 PM
Surr: Nitrobenzene-d5	102	0	45-125		%REC	1	5/24/2005 9:48:00 PM
Surr: Phenol-d6	96.8	0	40-125		%REC	1	5/24/2005 9:48:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	416	3.2	10.8		mg/Kg-dry	1	5/23/2005 6:16:30 PM
TPH-ORO >C28-C35	357	3.2	10.8		mg/Kg-dry	1	5/23/2005 6:16:30 PM
Surr: o-Terphenyl	76.6	0	47-142		%REC	1	5/23/2005 6:16:30 PM
Surr: Octacosane	86.9	0	25-162		%REC	1	5/23/2005 6:16:30 PM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.017	0.0422		mg/Kg-dry	1	5/19/2005 4:53:57 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.81	0.54	1.08		mg/Kg-dry	5	5/19/2005 6:08:00 PM
Barium	106	0.54	2.16		mg/Kg-dry	5	5/19/2005 6:08:00 PM
Cadmium	0.18	0.11	0.324	J	mg/Kg-dry	5	5/19/2005 6:08:00 PM
Chromium	10.4	0.54	2.16		mg/Kg-dry	5	5/19/2005 6:08:00 PM
Lead	7.24	0.11	0.324		mg/Kg-dry	5	5/19/2005 6:08:00 PM
Selenium	0.724	0.16	0.540		mg/Kg-dry	5	5/19/2005 6:08:00 PM
Silver	ND	0.11	0.216		mg/Kg-dry	5	5/19/2005 6:08:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL4-B2-0001
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:15:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GRO (M8015) OKLAHOMA		**M8015V**				Analyst: **AJR**	
Gasoline Range Organics	ND	0.066	0.220		mg/Kg-dry	1	5/24/2005 2:35:20 PM
Surr: a,a,a-Trifluorotoluene	124	0	59-121	S	%REC	1	5/24/2005 2:35:20 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	11.0	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT: SMITH INTERNATIONAL
Project Name: Sii, Smith Services Drilco-Hobbs, ESA/REM
Project No: Drilco Hobbs 110403
Lab Order: 0505120

Client Sample ID: NM-HB-DRL-4-B3-0203
Lab ID: 0505120-03
Collection Date: 5/17/2005 10:30:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1,1-Trichloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1,2-Trichloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1-Dichloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1-Dichloroethene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,1-Dichloropropene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2,3-Trichlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2,3-Trichloropropane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2,4-Trichlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2,4-Trimethylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2-Dibromo-3-chloropropane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2-Dibromoethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2-Dichlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2-Dichloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,2-Dichloropropane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,3,5-Trimethylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,3-Dichlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,3-Dichloropropane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
1,4-Dichlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
2,2-Dichloropropane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
2-Butanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
2-Chloroethylvinylether	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
2-Chlorotoluene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
2-Hexanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
4-Chlorotoluene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
4-Methyl-2-pentanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Acetone	ND	21	51.7		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Benzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Bromobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Bromochloromethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Bromodichloromethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Bromoform	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Bromomethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Carbon disulfide	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Carbon tetrachloride	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Chlorobenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Chloroethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Chloroform	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Chloromethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM

Qualifiers:
ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0203
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-03
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
cis-1,3-Dichloropropene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Dibromochloromethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Dibromomethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Dichlorodifluoromethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Ethylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Hexachlorobutadiene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Iodomethane	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Isopropylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
m,p-Xylene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Methyl tert-butyl ether	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Methylene chloride	ND	5.2	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
n-Butylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
n-Propylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Naphthalene	ND	5.2	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
o-Xylene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
p-Isopropyltoluene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
sec-Butylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Styrene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
tert-Butylbenzene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Tetrachloroethene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Toluene	ND	2.1	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
trans-1,2-Dichloroethene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
trans-1,3-Dichloropropene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Trichloroethene	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Trichlorofluoromethane	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Vinyl chloride	ND	1.0	5.17		µg/Kg-dry	1	5/24/2005 1:20:00 AM
Surr: 1,2-Dichloroethane-d4	115	0	52-149		%REC	1	5/24/2005 1:20:00 AM
Surr: 4-Bromofluorobenzene	95.3	0	65-135		%REC	1	5/24/2005 1:20:00 AM
Surr: Dibromofluoromethane	98.5	0	65-135		%REC	1	5/24/2005 1:20:00 AM
Surr: Toluene-d8	91.8	0	65-135		%REC	1	5/24/2005 1:20:00 AM
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
1,2-Dichlorobenzene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
1,3-Dichlorobenzene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
1,4-Dichlorobenzene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,4,5-Trichlorophenol	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,4,6-Trichlorophenol	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,4-Dichlorophenol	ND	0.072	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,4-Dimethylphenol	ND	0.096	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Project Name: Sii, Smith Services Drilco-Hobbs, ESA/REM
Project No: Drilco Hobbs 110403
Lab Order: 0505120

Client Sample ID: NM-HB-DRL-4-B3-0203
Lab ID: 0505120-03
Collection Date: 5/17/2005 10:30:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
2,4-Dinitrophenol	ND	0.072	0.790		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,4-Dinitrotoluene	ND	0.072	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2,6-Dinitrotoluene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Chloronaphthalene	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Chlorophenol	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Methylnaphthalene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Methylphenol	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Nitroaniline	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
2-Nitrophenol	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
3,3'-Dichlorobenzidine	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
3-Nitroaniline	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4,6-Dinitro-2-methylphenol	ND	0.096	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Bromophenyl phenyl ether	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Chloro-3-methylphenol	ND	0.072	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Chloroaniline	ND	0.060	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Chlorophenyl phenyl ether	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Methylphenol	ND	0.12	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Nitroaniline	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
4-Nitrophenol	ND	0.17	0.790		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Acenaphthene	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Acenaphthylene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Aniline	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Anthracene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzo[a]anthracene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzo[a]pyrene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzo[b]fluoranthene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzo[g,h,i]perylene	ND	0.072	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzo[k]fluoranthene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Benzyl alcohol	ND	0.048	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Bis(2-chloroethoxy)methane	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Bis(2-chloroethyl)ether	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Bis(2-chloroisopropyl)ether	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Butyl benzyl phthalate	ND	0.12	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Chrysene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Di-n-butyl phthalate	ND	0.12	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Di-n-octyl phthalate	ND	0.12	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Dibenz[a,h]anthracene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Dibenzofuran	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Diethyl phthalate	ND	0.12	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM

Qualifiers:
ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0203
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-03
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Dimethyl phthalate	ND	0.12	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Fluoranthene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Fluorene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Hexachlorobenzene	ND	0.012	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Hexachlorobutadiene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Hexachlorocyclopentadiene	ND	0.072	0.395		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Hexachloroethane	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Isophorone	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
N-Nitrosodi-n-propylamine	ND	0.060	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
N-Nitrosodiphenylamine	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Naphthalene	ND	0.048	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Nitrobenzene	ND	0.084	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Pentachlorophenol	ND	0.11	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Phenanthrene	ND	0.036	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Phenol	ND	0.072	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Pyrene	ND	0.024	0.159		mg/Kg-dry	1	5/24/2005 1:14:00 PM
Surr: 2,4,6-Tribromophenol	106	0	60-153		%REC	1	5/24/2005 1:14:00 PM
Surr: 2-Fluorobiphenyl	110	0	70-135		%REC	1	5/24/2005 1:14:00 PM
Surr: 2-Fluorophenol	101	0	37-125		%REC	1	5/24/2005 1:14:00 PM
Surr: 4-Terphenyl-d14	111	0	69-128		%REC	1	5/24/2005 1:14:00 PM
Surr: Nitrobenzene-d5	112	0	45-125		%REC	1	5/24/2005 1:14:00 PM
Surr: Phenol-d6	98.3	0	40-125		%REC	1	5/24/2005 1:14:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.5	11.5		mg/Kg-dry	1	5/23/2005 10:58:15 AM
TPH-ORO >C28-C35	ND	3.5	11.5		mg/Kg-dry	1	5/23/2005 10:58:15 AM
Surr: o-Terphenyl	85.6	0	47-142		%REC	1	5/23/2005 10:58:15 AM
Surr: Octacosane	96.5	0	25-162		%REC	1	5/23/2005 10:58:15 AM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.016	0.0411		mg/Kg-dry	1	5/19/2005 4:56:01 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.96	0.58	1.15		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Barium	145	0.58	2.30		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Cadmium	0.352	0.12	0.346		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Chromium	20.3	0.58	2.30		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Lead	11.3	0.12	0.346		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Selenium	0.902	0.17	0.576		mg/Kg-dry	5	5/19/2005 5:19:00 PM
Silver	ND	0.12	0.230		mg/Kg-dry	5	5/19/2005 5:19:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0203
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-03
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 10:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GRO (M8015) OKLAHOMA		**M8015V**				Analyst: **AJR**	
Gasoline Range Organics	ND	0.064	0.212		mg/Kg-dry	1	5/24/2005 12:19:28 PM
Surr: a,a,a-Trifluorotoluene	134	0	59-121	S	%REC	1	5/24/2005 12:19:28 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	18.1	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-B4-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-04
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:10:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1,1-Trichloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1,2,2-Tetrachloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1,2-Trichloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1-Dichloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1-Dichloroethene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,1-Dichloropropene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2,3-Trichlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2,3-Trichloropropane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2,4-Trichlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2,4-Trimethylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2-Dibromo-3-chloropropane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2-Dibromoethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2-Dichlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2-Dichloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,2-Dichloropropane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,3,5-Trimethylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,3-Dichlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,3-Dichloropropane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
1,4-Dichlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
2,2-Dichloropropane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
2-Butanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
2-Chloroethylvinylether	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
2-Chlorotoluene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
2-Hexanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
4-Chlorotoluene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
4-Methyl-2-pentanone	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Acetone	ND	21	51.8		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Benzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Bromobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Bromochloromethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Bromodichloromethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Bromoform	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Bromomethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Carbon disulfide	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Carbon tetrachloride	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Chlorobenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Chloroethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Chloroform	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Chloromethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-B4-0102
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-04
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:10:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
cis-1,3-Dichloropropene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Dibromochloromethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Dibromomethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Dichlorodifluoromethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Ethylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Hexachlorobutadiene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Iodomethane	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Isopropylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
m,p-Xylene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Methyl tert-butyl ether	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Methylene chloride	ND	5.2	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
n-Butylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
n-Propylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Naphthalene	ND	5.2	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
o-Xylene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
p-Isopropyltoluene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
sec-Butylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Styrene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
tert-Butylbenzene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Tetrachloroethene	3.7	1.0	5.18	J	µg/Kg-dry	1	5/24/2005 12:46:00 AM
Toluene	ND	2.1	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
trans-1,2-Dichloroethene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
trans-1,3-Dichloropropene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Trichloroethene	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Trichlorofluoromethane	ND	5.2	15.5		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Vinyl chloride	ND	1.0	5.18		µg/Kg-dry	1	5/24/2005 12:46:00 AM
Surr: 1,2-Dichloroethane-d4	111	0	52-149		%REC	1	5/24/2005 12:46:00 AM
Surr: 4-Bromofluorobenzene	96.6	0	65-135		%REC	1	5/24/2005 12:46:00 AM
Surr: Dibromofluoromethane	97.6	0	65-135		%REC	1	5/24/2005 12:46:00 AM
Surr: Toluene-d8	95.9	0	65-135		%REC	1	5/24/2005 12:46:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	16.2	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0304
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:20:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1,1-Trichloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1,2,2-Tetrachloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1,2-Trichloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1-Dichloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1-Dichloroethene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,1-Dichloropropene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2,3-Trichlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2,3-Trichloropropane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2,4-Trichlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2,4-Trimethylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2-Dibromo-3-chloropropane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2-Dibromoethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2-Dichlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2-Dichloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,2-Dichloropropane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,3,5-Trimethylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,3-Dichlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,3-Dichloropropane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
1,4-Dichlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
2,2-Dichloropropane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
2-Butanone	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
2-Chloroethylvinylether	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
2-Chlorotoluene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
2-Hexanone	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
4-Chlorotoluene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
4-Methyl-2-pentanone	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Acetone	ND	24	59.2		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Benzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Bromobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Bromochloromethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Bromodichloromethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Bromoform	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Bromomethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Carbon disulfide	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Carbon tetrachloride	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Chlorobenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Chloroethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Chloroform	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Chloromethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM

Qualifiers:
ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Project Name: Sii, Smith Services Drilco-Hobbs, ESA/REM
Project No: Drilco Hobbs 110403
Lab Order: 0505120

Client Sample ID: NM-HB-DRL-4-B3-0304
Lab ID: 0505120-05
Collection Date: 5/17/2005 11:20:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
cis-1,3-Dichloropropene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Dibromochloromethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Dibromomethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Dichlorodifluoromethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Ethylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Hexachlorobutadiene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Iodomethane	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Isopropylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
m,p-Xylene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Methyl tert-butyl ether	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Methylene chloride	ND	5.9	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
n-Butylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
n-Propylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Naphthalene	ND	5.9	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
o-Xylene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
p-Isopropyltoluene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
sec-Butylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Styrene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
tert-Butylbenzene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Tetrachloroethene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Toluene	ND	2.4	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
trans-1,2-Dichloroethene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
trans-1,3-Dichloropropene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Trichloroethene	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Trichlorofluoromethane	ND	5.9	17.8		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Vinyl chloride	ND	1.2	5.92		µg/Kg-dry	1	5/24/2005 12:14:00 AM
Surr: 1,2-Dichloroethane-d4	111	0	52-149		%REC	1	5/24/2005 12:14:00 AM
Surr: 4-Bromofluorobenzene	96.9	0	65-135		%REC	1	5/24/2005 12:14:00 AM
Surr: Dibromofluoromethane	96.6	0	65-135		%REC	1	5/24/2005 12:14:00 AM
Surr: Toluene-d8	97.3	0	65-135		%REC	1	5/24/2005 12:14:00 AM
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
1,2-Dichlorobenzene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
1,3-Dichlorobenzene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
1,4-Dichlorobenzene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,4,5-Trichlorophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,4,6-Trichlorophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,4-Dichlorophenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,4-Dimethylphenol	ND	0.088	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM

Qualifiers:
ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0304
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:20:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
2,4-Dinitrophenol	ND	0.066	0.723		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,4-Dinitrotoluene	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2,6-Dinitrotoluene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Chloronaphthalene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Chlorophenol	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Methylnaphthalene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Methylphenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Nitroaniline	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
2-Nitrophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
3,3'-Dichlorobenzidine	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
3-Nitroaniline	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4,6-Dinitro-2-methylphenol	ND	0.088	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Chloro-3-methylphenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Chloroaniline	ND	0.055	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Methylphenol	ND	0.11	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Nitroaniline	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
4-Nitrophenol	ND	0.15	0.723		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Acenaphthene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Acenaphthylene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Aniline	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Anthracene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzo[a]anthracene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzo[a]pyrene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzo[b]fluoranthene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzo[g,h,i]perylene	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzo[k]fluoranthene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Benzyl alcohol	ND	0.044	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Bis(2-chloroethoxy)methane	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Bis(2-chloroethyl)ether	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Butyl benzyl phthalate	ND	0.11	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Chrysene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Di-n-butyl phthalate	ND	0.11	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Di-n-octyl phthalate	ND	0.11	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Dibenz[a,h]anthracene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Dibenzofuran	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Diethyl phthalate	ND	0.11	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0304
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:20:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Dimethyl phthalate	ND	0.11	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Fluoranthene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Fluorene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Hexachlorobenzene	ND	0.011	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Hexachlorobutadiene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Hexachlorocyclopentadiene	ND	0.066	0.361		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Hexachloroethane	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Isophorone	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
N-Nitrosodi-n-propylamine	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Naphthalene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Nitrobenzene	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Pentachlorophenol	ND	0.099	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Phenanthrene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Phenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Pyrene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 1:54:00 PM
Surr: 2,4,6-Tribromophenol	92.0	0	60-153		%REC	1	5/24/2005 1:54:00 PM
Surr: 2-Fluorobiphenyl	95.8	0	70-135		%REC	1	5/24/2005 1:54:00 PM
Surr: 2-Fluorophenol	89.6	0	37-125		%REC	1	5/24/2005 1:54:00 PM
Surr: 4-Terphenyl-d14	94.0	0	69-128		%REC	1	5/24/2005 1:54:00 PM
Surr: Nitrobenzene-d5	100	0	45-125		%REC	1	5/24/2005 1:54:00 PM
Surr: Phenol-d6	96.0	0	40-125		%REC	1	5/24/2005 1:54:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.1	10.3		mg/Kg-dry	1	5/23/2005 11:23:31 AM
TPH-ORO >C28-C35	ND	3.1	10.3		mg/Kg-dry	1	5/23/2005 11:23:31 AM
Surr: o-Terphenyl	88.1	0	47-142		%REC	1	5/23/2005 11:23:31 AM
Surr: Octacosane	101	0	25-162		%REC	1	5/23/2005 11:23:31 AM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.018	0.0442		mg/Kg-dry	1	5/19/2005 4:58:03 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.62	0.50	0.998		mg/Kg-dry	5	5/19/2005 5:23:00 PM
Barium	77.2	0.50	2.00		mg/Kg-dry	5	5/19/2005 5:23:00 PM
Cadmium	ND	0.10	0.299		mg/Kg-dry	5	5/19/2005 5:23:00 PM
Chromium	5.87	0.50	2.00		mg/Kg-dry	5	5/19/2005 5:23:00 PM
Lead	4.39	0.10	0.299		mg/Kg-dry	5	5/19/2005 5:23:00 PM
Selenium	0.38	0.15	0.499	J	mg/Kg-dry	5	5/19/2005 5:23:00 PM
Silver	ND	0.10	0.200		mg/Kg-dry	5	5/19/2005 5:23:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-B3-0304
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:20:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GRO (M8015) OKLAHOMA		**M8015V**				Analyst: **AJR**	
Gasoline Range Organics	ND	0.057	0.190		mg/Kg-dry	1	5/24/2005 1:49:50 PM
Surr: a,a,a-Trifluorotoluene	131	0	59-121	S	%REC	1	5/24/2005 1:49:50 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.5	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Project Name: Sii, Smith Services Drilco-Hobbs, ESA/REM
Project No: Drilco Hobbs 110403
Lab Order: 0505120

Client Sample ID: NM-HB-DRL-4-2
Lab ID: 0505120-06
Collection Date: 5/17/2005 11:30:00 AM
Matrix: SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
1,1,1,2-Tetrachloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1,1-Trichloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1,2,2-Tetrachloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1,2-Trichloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1-Dichloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1-Dichloroethene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,1-Dichloropropene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2,3-Trichlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2,3-Trichloropropane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2,4-Trichlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2,4-Trimethylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2-Dibromo-3-chloropropane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2-Dibromoethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2-Dichlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2-Dichloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,2-Dichloropropane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,3,5-Trimethylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,3-Dichlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,3-Dichloropropane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
1,4-Dichlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
2,2-Dichloropropane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
2-Butanone	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
2-Chloroethylvinylether	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
2-Chlorotoluene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
2-Hexanone	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
4-Chlorotoluene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
4-Methyl-2-pentanone	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Acetone	ND	23	57.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Benzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Bromobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Bromochloromethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Bromodichloromethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Bromoform	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Bromomethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Carbon disulfide	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Carbon tetrachloride	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Chlorobenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Chloroethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Chloroform	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Chloromethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM

Qualifiers:
ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-2
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
VOLATILES (5035) BY GC/MS		**SW8260B**				Analyst: **DO**	
cis-1,2-Dichloroethene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
cis-1,3-Dichloropropene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Dibromochloromethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Dibromomethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Dichlorodifluoromethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Ethylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Hexachlorobutadiene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Iodomethane	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Isopropylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
m,p-Xylene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Methyl tert-butyl ether	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Methylene chloride	ND	5.7	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
n-Butylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
n-Propylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Naphthalene	ND	5.7	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
o-Xylene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
p-Isopropyltoluene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
sec-Butylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Styrene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
tert-Butylbenzene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Tetrachloroethene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Toluene	ND	2.3	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
trans-1,2-Dichloroethene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
trans-1,3-Dichloropropene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Trichloroethene	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Trichlorofluoromethane	ND	5.7	17.2		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Vinyl chloride	ND	1.1	5.72		µg/Kg-dry	1	5/23/2005 11:42:00 PM
Surr: 1,2-Dichloroethane-d4	113	0	52-149		%REC	1	5/23/2005 11:42:00 PM
Surr: 4-Bromofluorobenzene	96.1	0	65-135		%REC	1	5/23/2005 11:42:00 PM
Surr: Dibromofluoromethane	98.2	0	65-135		%REC	1	5/23/2005 11:42:00 PM
Surr: Toluene-d8	97.0	0	65-135		%REC	1	5/23/2005 11:42:00 PM
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
1,2-Dichlorobenzene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
1,3-Dichlorobenzene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
1,4-Dichlorobenzene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,4,5-Trichlorophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,4,6-Trichlorophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,4-Dichlorophenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,4-Dimethylphenol	ND	0.087	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-2
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
2,4-Dinitrophenol	ND	0.065	0.718		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,4-Dinitrotoluene	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2,6-Dinitrotoluene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Chloronaphthalene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Chlorophenol	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Methylnaphthalene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Methylphenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Nitroaniline	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
2-Nitrophenol	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
3,3'-Dichlorobenzidine	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
3-Nitroaniline	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4,6-Dinitro-2-methylphenol	ND	0.087	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Chloro-3-methylphenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Chloroaniline	ND	0.054	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Methylphenol	ND	0.11	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Nitroaniline	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
4-Nitrophenol	ND	0.15	0.718		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Acenaphthene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Acenaphthylene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Aniline	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Anthracene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzo[a]anthracene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzo[a]pyrene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzo[b]fluoranthene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzo[g,h,i]perylene	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzo[k]fluoranthene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Benzyl alcohol	ND	0.044	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Bis(2-chloroethoxy)methane	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Bis(2-chloroethyl)ether	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Bis(2-ethylhexyl)phthalate	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Butyl benzyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Chrysene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Di-n-butyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Di-n-octyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Dibenz[a,h]anthracene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Dibenzofuran	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Diethyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-2
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Dimethyl phthalate	ND	0.11	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Fluoranthene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Fluorene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Hexachlorobenzene	ND	0.011	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Hexachlorobutadiene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Hexachlorocyclopentadiene	ND	0.065	0.359		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Hexachloroethane	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Isophorone	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
N-Nitrosodi-n-propylamine	ND	0.054	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Naphthalene	ND	0.044	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Nitrobenzene	ND	0.076	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Pentachlorophenol	ND	0.098	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Phenanthrene	ND	0.033	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Phenol	ND	0.065	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Pyrene	ND	0.022	0.145		mg/Kg-dry	1	5/24/2005 2:34:00 PM
Surr: 2,4,6-Tribromophenol	92.0	0	60-153		%REC	1	5/24/2005 2:34:00 PM
Surr: 2-Fluorobiphenyl	95.0	0	70-135		%REC	1	5/24/2005 2:34:00 PM
Surr: 2-Fluorophenol	89.6	0	37-125		%REC	1	5/24/2005 2:34:00 PM
Surr: 4-Terphenyl-d14	94.5	0	69-128		%REC	1	5/24/2005 2:34:00 PM
Surr: Nitrobenzene-d5	99.5	0	45-125		%REC	1	5/24/2005 2:34:00 PM
Surr: Phenol-d6	97.8	0	40-125		%REC	1	5/24/2005 2:34:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.2	10.6		mg/Kg-dry	1	5/23/2005 11:48:54 AM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	5/23/2005 11:48:54 AM
Surr: o-Terphenyl	87.3	0	47-142		%REC	1	5/23/2005 11:48:54 AM
Surr: Octacosane	100	0	25-162		%REC	1	5/23/2005 11:48:54 AM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.015	0.0383		mg/Kg-dry	1	5/19/2005 5:00:06 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.42	0.54	1.08		mg/Kg-dry	5	5/19/2005 5:55:00 PM
Barium	57.7	0.54	2.15		mg/Kg-dry	5	5/19/2005 5:55:00 PM
Cadmium	ND	0.11	0.323		mg/Kg-dry	5	5/19/2005 5:55:00 PM
Chromium	5.20	0.54	2.15		mg/Kg-dry	5	5/19/2005 5:55:00 PM
Lead	3.68	0.11	0.323		mg/Kg-dry	5	5/19/2005 5:55:00 PM
Selenium	0.21	0.16	0.539	J	mg/Kg-dry	5	5/19/2005 5:55:00 PM
Silver	ND	0.11	0.215		mg/Kg-dry	5	5/19/2005 5:55:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-4-2
Project Name:	Sii, Smith Services Drilco-Hobbs, ESA/REM	**Lab ID:**	0505120-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 11:30:00 AM
Lab Order:	0505120	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GRO (M8015) OKLAHOMA		**M8015V**				Analyst: **AJR**	
Gasoline Range Organics	ND	0.061	0.202		mg/Kg-dry	1	5/24/2005 2:12:47 PM
Surr: a,a,a-Trifluorotoluene	122	0	59-121	S	%REC	1	5/24/2005 2:12:47 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.88	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050523A

Sample ID: **MB-19167**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 10:32:55 AM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	12.74	0	15	0	84.9	47	142	0		
Surr: Octacosane	14.36	0	15	0	95.7	25	162	0		

Sample ID: **LCS-19167**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 10:07:36 AM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	268.1	10	250	0	107	50	114	0		
Surr: o-Terphenyl	16.75	0	15	0	112	47	142	0		
Surr: Octacosane	17.12	0	15	0	114	25	162	0		

Sample ID: **CCV1-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 4:30:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	576.7	10	500	0	115	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.74	0	20	0	93.7	47	142	0		
Surr: Octacosane	17.33	0	20	0	86.7	25	162	0		

Sample ID: **CCV2-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 7:33:17 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	535.8	10	500	0	107	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.99	0	20	0	90	47	142	0		
Surr: Octacosane	17.78	0	20	0	88.9	25	162	0		

Sample ID: **ICV-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 9:42:39 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	996.1	10	1000	0	99.6	85	115	0		
TPH-ORO >C28-C35	0.4559	10	0	0	0	0	0	0		
Surr: o-Terphenyl	19.03	0	25	0	76.1	47	142	0		
Surr: Octacosane	14.94	0	25	0	59.8	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050523B

Sample ID: **0505120-02C MS** Batch ID: **19167** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_050523B** Analysis Date: **5/23/2005 6:42:17 PM** Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	648.9	10.8	270.1	415.6	86.4	50	114	0		
Surr: o-Terphenyl	13.32	0	16.21	0	82.2	47	142	0		
Surr: Octacosane	15.51	0	16.21	0	95.7	25	162	0		

Sample ID: **0505120-02C MSD** Batch ID: **19167** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_050523B** Analysis Date: **5/23/2005 7:07:53 PM** Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	713.9	10.8	270.1	415.6	110	50	114	9.53	30	
Surr: o-Terphenyl	13.53	0	16.21	0	83.5	47	142	0	0	
Surr: Octacosane	16.36	0	16.21	0	101	25	162	0	0	

Sample ID: **CCV1-050523** Batch ID: **R22132** TestNo: **M8015D** Units: **mg/Kg**
SampType: **CCV** Run ID: **GC15_050523B** Analysis Date: **5/23/2005 4:30:07 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	558.6	10	500	0	112	85	115	0		
TPH-ORO >C28-C35	0.07566	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.81	0	20	0	89.1	47	142	0		
Surr: Octacosane	14.38	0	20	0	71.9	25	162	0		

Sample ID: **CCV2-050523** Batch ID: **R22132** TestNo: **M8015D** Units: **mg/Kg**
SampType: **CCV** Run ID: **GC15_050523B** Analysis Date: **5/23/2005 7:33:17 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	559.9	10	500	0	112	85	115	0		
TPH-ORO >C28-C35	18.45	10	0	0	0	0	0	0		
Surr: o-Terphenyl	16.57	0	20	0	82.8	47	142	0		
Surr: Octacosane	15.25	0	20	0	76.3	25	162	0		

Sample ID: **ICV-050523** Batch ID: **R22132** TestNo: **M8015D** Units: **mg/Kg**
SampType: **ICV** Run ID: **GC15_050523B** Analysis Date: **5/23/2005 9:42:39 AM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	920.9	10	1000	0	92.1	85	115	0		
TPH-ORO >C28-C35	0.5341	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.01	0	25	0	72	47	142	0		
Surr: Octacosane	3.658	0	25	0	14.6	25	162	0		S

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_050524A

Sample ID: MB-19205	Batch ID: 19205	TestNo: M8015V	Units: mg/Kg
SampType: MBLK	Run ID: GC4_050524A	Analysis Date: 5/24/2005 11:35:18 AM	Prep Date: 5/24/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	0.2								
Surr: a,a,a-Trifluorotoluene	0.209	0	0.2	0	105	59	121	0		

Sample ID: LCS-19205	Batch ID: 19205	TestNo: M8015V	Units: mg/Kg
SampType: LCS	Run ID: GC4_050524A	Analysis Date: 5/24/2005 11:13:15 AM	Prep Date: 5/24/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.376	0.2	2.5	0	95	68	106	0		
Surr: a,a,a-Trifluorotoluene	0.2107	0	0.2	0	105	59	121	0		

Sample ID: 0505120-03B MS	Batch ID: 19205	TestNo: M8015V	Units: mg/Kg-dry
SampType: MS	Run ID: GC4_050524A	Analysis Date: 5/24/2005 3:20:42 PM	Prep Date: 5/24/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.165	0.223	2.79	0	77.6	68	106	0		
Surr: a,a,a-Trifluorotoluene	0.302	0	0.2232	0	135	59	121	0		S

Sample ID: 0505120-03B MSD	Batch ID: 19205	TestNo: M8015V	Units: mg/Kg-dry
SampType: MSD	Run ID: GC4_050524A	Analysis Date: 5/24/2005 3:43:39 PM	Prep Date: 5/24/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.219	0.235	2.941	0	75.5	68	106	2.46	30	
Surr: a,a,a-Trifluorotoluene	0.3306	0	0.2353	0	141	59	121	0	0	S

Sample ID: CCV1-050524	Batch ID: R22139	TestNo: M8015V	Units: mg/Kg
SampType: CCV	Run ID: GC4_050524A	Analysis Date: 5/24/2005 2:57:53 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.543	0.2	2.5	0	102	80	120	0		
Surr: a,a,a-Trifluorotoluene	0.2367	0	0.2	0	118	59	121	0		

Sample ID: CCV2-050524	Batch ID: R22139	TestNo: M8015V	Units: mg/Kg
SampType: CCV	Run ID: GC4_050524A	Analysis Date: 5/24/2005 4:06:43 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	2.442	0.2	2.5	0	97.7	80	120	0		
Surr: a,a,a-Trifluorotoluene	0.2025	0	0.2	0	101	59	121	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_050524A

Sample ID: **ICV-050524**	Batch ID: **R22139**	TestNo: **M8015V**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC4_050524A**	Analysis Date: **5/24/2005 10:51:15 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.766	0.2	5	0	95.3	80	120	0		
Surr: a,a,a-Trifluorotoluene	0.2087	0	0.2	0	104	59	121	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050519A

Sample ID: MB-19147	Batch ID: 19147	TestNo: SW7471A	Units: mg/Kg
SampType: MBLK	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 4:23:08 PM	Prep Date: 5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.04								

Sample ID: LCS-19147	Batch ID: 19147	TestNo: SW7471A	Units: mg/Kg
SampType: LCS	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 4:25:10 PM	Prep Date: 5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.167	0.04	0.2	0	83.5	77	120	0		

Sample ID: LCSD-19147	Batch ID: 19147	TestNo: SW7471A	Units: mg/Kg
SampType: LCSD	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 4:27:12 PM	Prep Date: 5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.167	0.04	0.2	0	83.5	77	120	0	25	

Sample ID: 0505116-07A MS	Batch ID: 19147	TestNo: SW7471A	Units: mg/Kg-dry
SampType: MS	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 5:02:09 PM	Prep Date: 5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1678	0.0361	0.1804	0.02242	80.6	77	120	0		

Sample ID: 0505116-07A MSD	Batch ID: 19147	TestNo: SW7471A	Units: mg/Kg-dry
SampType: MSD	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 5:04:19 PM	Prep Date: 5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1645	0.035	0.175	0.02242	81.2	77	120	1.99	25	

Sample ID: CCV1-050519	Batch ID: R22090	TestNo: SW7471A	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 4:43:41 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00214	0.04	0.002	0	107	80	120	0		

Sample ID: CCV2-050519	Batch ID: R22090	TestNo: SW7471A	Units: mg/Kg
SampType: CCV	Run ID: CETAC_HG_050519A	Analysis Date: 5/19/2005 5:10:23 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00213	0.04	0.002	0	106	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050519A

Sample ID: **CCV3-050519**	Batch ID: **R22090**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **CETAC_HG_050519A**	Analysis Date: **5/19/2005 5:19:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00217	0.04	0.002	0	108	80	120	0		

Sample ID: **ICV-050519**	Batch ID: **R22090**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **CETAC_HG_050519A**	Analysis Date: **5/19/2005 4:15:12 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00411	0.04	0.004	0	103	90	110	0		

Sample ID: **0505116-01A PDS**	Batch ID: **19147**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType: **PDS**	Run ID: **CETAC_HG_050519A**	Analysis Date: **5/19/2005 5:14:30 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1774	0.0351	0.1757	0.03162	83	75	125	0		

Sample ID: **0505116-01A SD**	Batch ID: **19147**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType: **SD**	Run ID: **CETAC_HG_050519A**	Analysis Date: **5/19/2005 5:08:18 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.176	0	0.03162	0	0	0	0	10	

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID: **MB-19146** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 5:51:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								
Barium	ND	2								
Cadmium	ND	0.3								
Chromium	ND	2								
Lead	ND	0.3								
Selenium	ND	0.5								
Silver	ND	0.2								

Sample ID: **LCS-19146** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:12:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.42	1	50	0	90.8	80	120	0		
Barium	48.42	2	50	0	96.8	80	120	0		
Cadmium	45.95	0.3	50	0	91.9	80	120	0		
Chromium	47.95	2	50	0	95.9	80	120	0		
Lead	47.92	0.3	50	0	95.8	80	120	0		
Selenium	42.38	0.5	50	0	84.8	80	120	0		
Silver	48.22	0.2	50	0	96.4	80	120	0		

Sample ID: **LCSD-19146** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:16:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.95	1	50	0	91.9	80	120	1.15	25	
Barium	48.98	2	50	0	98	80	120	1.13	25	
Cadmium	46.35	0.3	50	0	92.7	80	120	0.867	25	
Chromium	48.4	2	50	0	96.8	80	120	0.934	25	
Lead	48.85	0.3	50	0	97.7	80	120	1.91	25	
Selenium	42.68	0.5	50	0	85.4	80	120	0.705	25	
Silver	48.9	0.2	50	0	97.8	80	120	1.39	25	

Sample ID: **0505120-06C MS** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:21:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.4	1.06	52.84	1.422	88.9	80	120	0		
Barium	92.94	2.11	52.84	57.69	66.7	80	120	0		S
Cadmium	47.34	0.317	52.84	0	89.6	80	120	0		
Chromium	54.56	2.11	52.84	5.203	93.4	80	120	0		
Lead	54	0.317	52.84	3.682	95.2	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID: **0505120-06C MS** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:21:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	44.62	0.528	52.84	0.2127	84	80	120	0		
Silver	49.88	0.211	52.84	0	94.4	80	120	0		

Sample ID: **0505120-06C MSD** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:25:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.07	1.1	54.93	1.422	88.6	80	120	3.39	25	
Barium	83.72	2.2	54.93	57.69	47.4	80	120	10.4	25	S
Cadmium	49.85	0.33	54.93	0	90.8	80	120	5.16	25	
Chromium	57.35	2.2	54.93	5.203	94.9	80	120	4.99	25	
Lead	55.81	0.33	54.93	3.682	94.9	80	120	3.29	25	
Selenium	45.76	0.549	54.93	0.2127	82.9	80	120	2.51	25	
Silver	52.08	0.22	54.93	0	94.8	80	120	4.31	25	

Sample ID: **0505120-06C PDS** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType: **PDS** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:29:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.96	1.08	53.87	1.422	92	75	125	0		
Barium	109.4	2.15	53.87	57.69	96	75	125	0		
Cadmium	48.53	0.323	53.87	0	90.1	75	125	0		
Chromium	54.94	2.15	53.87	5.203	92.3	75	125	0		
Lead	56.02	0.323	53.87	3.682	97.2	75	125	0		
Selenium	46.06	0.539	53.87	0.2127	85.1	75	125	0		
Silver	50.42	0.215	53.87	0	93.6	75	125	0		

Sample ID: **0505120-06C SD** Batch ID: **19146** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType: **SD** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:00:00 PM** Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.39	0	1.422	0	0	0	0	10	
Barium	59.66	10.8	0	57.69	0	0	0	3.35	10	
Cadmium	ND	1.62	0	0	0	0	0	0	10	
Chromium	4.325	2.69	0	5.203	0	0	0	18.4	10	R
Lead	3.799	1.62	0	3.682	0	0	0	3.13	10	
Selenium	ND	2.69	0	0.2127	0	0	0	0	10	
Silver	ND	1.08	0	0	0	0	0	0	10	

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID: **CCV1-050519** Batch ID: **R22083** TestNo: **SW6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 4:39:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191.2	6	200	0	95.6	90	110	0		
Barium	191.2	10	200	0	95.6	90	110	0		
Cadmium	186.1	1	200	0	93	90	110	0		
Chromium	185.6	6	200	0	92.8	90	110	0		
Lead	191.4	1	200	0	95.7	90	110	0		
Selenium	189.9	6	200	0	95	90	110	0		
Silver	187.2	2	200	0	93.6	90	110	0		

Sample ID: **CCV2-050519** Batch ID: **R22083** TestNo: **SW6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 5:35:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	189.4	6	200	0	94.7	90	110	0		
Barium	194	10	200	0	97	90	110	0		
Cadmium	187.4	1	200	0	93.7	90	110	0		
Chromium	187.2	6	200	0	93.6	90	110	0		
Lead	191.6	1	200	0	95.8	90	110	0		
Selenium	188.2	6	200	0	94.1	90	110	0		
Silver	188.5	2	200	0	94.2	90	110	0		

Sample ID: **CCV3-050519** Batch ID: **R22083** TestNo: **SW6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 6:37:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	187.8	6	200	0	93.9	90	110	0		
Barium	193.9	10	200	0	97	90	110	0		
Cadmium	186.3	1	200	0	93.2	90	110	0		
Chromium	188.1	6	200	0	94	90	110	0		
Lead	192.6	1	200	0	96.3	90	110	0		
Selenium	186.3	6	200	0	93.2	90	110	0		
Silver	187.9	2	200	0	94	90	110	0		

Sample ID: **CCV4-050519** Batch ID: **R22083** TestNo: **SW6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS_050519A** Analysis Date: **5/19/2005 7:58:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191	6	200	0	95.5	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID: **ICV1-050519**	Batch ID: **R22083**	TestNo: **SW6020**		Units: **µg/L**	
SampType: **ICV**	Run ID: **ICP-MS_050519A**	Analysis Date: **5/19/2005 3:38:00 PM**		Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	99.13	6	100	0	99.1	90	110	0		
Barium	95.13	10	100	0	95.1	90	110	0		
Cadmium	97.38	1	100	0	97.4	90	110	0		
Chromium	97.54	6	100	0	97.5	90	110	0		
Lead	100.8	1	100	0	101	90	110	0		
Selenium	96.11	6	100	0	96.1	90	110	0		
Silver	100.9	2	100	0	101	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID: **MB-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 12:35:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	ND	0.133								
1,2-Dichlorobenzene	ND	0.133								
1,3-Dichlorobenzene	ND	0.133								
1,4-Dichlorobenzene	ND	0.133								
2,4,5-Trichlorophenol	ND	0.133								
2,4,6-Trichlorophenol	ND	0.133								
2,4-Dichlorophenol	ND	0.133								
2,4-Dimethylphenol	ND	0.133								
2,4-Dinitrophenol	ND	0.66								
2,4-Dinitrotoluene	ND	0.133								
2,6-Dinitrotoluene	ND	0.133								
2-Chloronaphthalene	ND	0.133								
2-Chlorophenol	ND	0.133								
2-Methylnaphthalene	ND	0.133								
2-Methylphenol	ND	0.133								
2-Nitroaniline	ND	0.133								
2-Nitrophenol	ND	0.133								
3,3'-Dichlorobenzidine	ND	0.133								
3-Nitroaniline	ND	0.133								
4,6-Dinitro-2-methylphenol	ND	0.33								
4-Bromophenyl phenyl ether	ND	0.133								
4-Chloro-3-methylphenol	ND	0.133								
4-Chloroaniline	ND	0.33								
4-Chlorophenyl phenyl ether	ND	0.133								
4-Methylphenol	ND	0.133								
4-Nitroaniline	ND	0.133								
4-Nitrophenol	ND	0.66								
Acenaphthene	ND	0.133								
Acenaphthylene	ND	0.133								
Aniline	ND	0.133								
Anthracene	ND	0.133								
Benzo[a]anthracene	ND	0.133								
Benzo[a]pyrene	ND	0.133								
Benzo[b]fluoranthene	ND	0.133								
Benzo[g,h,i]perylene	ND	0.133								
Benzo[k]fluoranthene	ND	0.133								
Benzyl alcohol	ND	0.33								
Bis(2-chloroethoxy)methane	ND	0.133								
Bis(2-chloroethyl)ether	ND	0.133								
Bis(2-chloroisopropyl)ether	ND	0.133								
Bis(2-ethylhexyl)phthalate	ND	0.133								
Butyl benzyl phthalate	ND	0.33								

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID: **MB-19196** Batch ID: **19196** TestNo: **SW8270C** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS4_050524A** Analysis Date: **5/24/2005 12:35:00 PM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	ND	0.133								
Di-n-butyl phthalate	ND	0.33								
Di-n-octyl phthalate	ND	0.33								
Dibenz[a,h]anthracene	ND	0.133								
Dibenzofuran	ND	0.133								
Diethyl phthalate	ND	0.33								
Dimethyl phthalate	ND	0.33								
Fluoranthene	ND	0.133								
Fluorene	ND	0.133								
Hexachlorobenzene	ND	0.133								
Hexachlorobutadiene	ND	0.133								
Hexachlorocyclopentadiene	ND	0.33								
Hexachloroethane	ND	0.133								
Indeno[1,2,3-cd]pyrene	ND	0.133								
Isophorone	ND	0.133								
N-Nitrosodi-n-propylamine	ND	0.133								
N-Nitrosodiphenylamine	ND	0.133								
Naphthalene	ND	0.133								
Nitrobenzene	ND	0.133								
Pentachlorophenol	ND	0.133								
Phenanthrene	ND	0.133								
Phenol	ND	0.133								
Pyrene	ND	0.133								
Surr: 2,4,6-Tribromophenol	2.78	0	2.68	0	104	60	153	0		
Surr: 2-Fluorobiphenyl	2.78	0	2.68	0	104	70	135	0		
Surr: 2-Fluorophenol	2.707	0	2.68	0	101	37	125	0		
Surr: 4-Terphenyl-d14	2.953	0	2.68	0	110	69	128	0		
Surr: Nitrobenzene-d5	2.973	0	2.68	0	111	45	125	0		
Surr: Phenol-d6	2.573	0	2.68	0	96	40	125	0		

Sample ID: **LCS-19196** Batch ID: **19196** TestNo: **SW8270C** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS4_050524A** Analysis Date: **5/24/2005 11:55:00 AM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.093	0.133	1.34	0	81.6	34	152	0		
1,2-Dichlorobenzene	1.093	0.133	1.34	0	81.6	32	135	0		
1,3-Dichlorobenzene	1.087	0.133	1.34	0	81.1	26	135	0		
1,4-Dichlorobenzene	1.08	0.133	1.34	0	80.6	25	135	0		
2,4,5-Trichlorophenol	1	0.133	1.34	0	74.6	25	175	0		
2,4,6-Trichlorophenol	1.027	0.133	1.34	0	76.6	29	138	0		
2,4-Dichlorophenol	1.073	0.133	1.34	0	80.1	36	135	0		
2,4-Dimethylphenol	1.107	0.133	1.34	0	82.6	35	149	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID: **LCS-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:55:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2,4-Dinitrophenol	0.9933	0.66	1.34	0	74.1	25	161	0		
2,4-Dinitrotoluene	1.173	0.133	1.34	0	87.6	29	149	0		
2,6-Dinitrotoluene	1.12	0.133	1.34	0	83.6	41	135	0		
2-Chloronaphthalene	1.133	0.133	1.34	0	84.6	50	135	0		
2-Chlorophenol	1.053	0.133	1.34	0	78.6	31	135	0		
2-Methylnaphthalene	1.147	0.133	1.34	0	85.6	31	135	0		
2-Methylphenol	1.04	0.133	1.34	0	77.6	25	135	0		
2-Nitroaniline	1.373	0.133	1.34	0	102	40	135	0		
2-Nitrophenol	1.067	0.133	1.34	0	79.6	34	135	0		
3,3'-Dichlorobenzidine	1.027	0.133	1.34	0	76.6	25	175	0		
3-Nitroaniline	0.9867	0.133	1.34	0	73.6	41	135	0		
4,6-Dinitro-2-methylphenol	1.027	0.33	1.34	0	76.6	25	144	0		
4-Bromophenyl phenyl ether	1.113	0.133	1.34	0	83.1	43	137	0		
4-Chloro-3-methylphenol	1.1	0.133	1.34	0	82.1	34	135	0		
4-Chloroaniline	0.98	0.33	1.34	0	73.1	35	146	0		
4-Chlorophenyl phenyl ether	0.9933	0.133	1.34	0	74.1	41	142	0		
4-Methylphenol	1.053	0.133	1.34	0	78.6	25	135	0		
4-Nitroaniline	1.067	0.133	1.34	0	79.6	30	153	0		
4-Nitrophenol	1.42	0.66	1.34	0	106	25	141	0		
Acenaphthene	1.127	0.133	1.34	0	84.1	39	135	0		
Acenaphthylene	1.66	0.133	1.34	0	124	37	135	0		
Aniline	0.7467	0.133	1.34	0	55.7	40	140	0		
Anthracene	1.173	0.133	1.34	0	87.6	35	140	0		
Benzo[a]anthracene	1.153	0.133	1.34	0	86.1	41	143	0		
Benzo[a]pyrene	1.26	0.133	1.34	0	94	31	135	0		
Benzo[b]fluoranthene	1.227	0.133	1.34	0	91.5	27	135	0		
Benzo[g,h,i]perylene	1.233	0.133	1.34	0	92	25	159	0		
Benzo[k]fluoranthene	1.22	0.133	1.34	0	91	25	159	0		
Benzyl alcohol	1.193	0.33	1.34	0	89.1	25	135	0		
Bis(2-chloroethoxy)methane	1.187	0.133	1.34	0	88.6	39	135	0		
Bis(2-chloroethyl)ether	1.207	0.133	1.34	0	90	34	135	0		
Bis(2-chloroisopropyl)ether	1.247	0.133	1.34	0	93	26	175	0		
Bis(2-ethylhexyl)phthalate	1.36	0.133	1.34	0	101	25	139	0		
Butyl benzyl phthalate	1.307	0.33	1.34	0	97.5	25	135	0		
Chrysene	1.133	0.133	1.34	0	84.6	45	143	0		
Di-n-butyl phthalate	1.32	0.33	1.34	0	98.5	25	136	0		
Di-n-octyl phthalate	1.44	0.33	1.34	0	107	28	137	0		
Dibenz[a,h]anthracene	1.213	0.133	1.34	0	90.5	40	135	0		
Dibenzofuran	1.093	0.133	1.34	0	81.6	42	135	0		
Diethyl phthalate	1.067	0.33	1.34	0	79.6	27	135	0		
Dimethyl phthalate	1.12	0.33	1.34	0	83.6	25	175	0		
Fluoranthene	1.28	0.133	1.34	0	95.5	37	135	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID: **LCS-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:55:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluorene	1.02	0.133	1.34	0	76.1	38	149	0		
Hexachlorobenzene	1.087	0.133	1.34	0	81.1	36	143	0		
Hexachlorobutadiene	1.173	0.133	1.34	0	87.6	25	135	0		
Hexachlorocyclopentadiene	1.867	0.33	1.34	0	139	31	135	0		S
Hexachloroethane	1.167	0.133	1.34	0	87.1	25	163	0		
Indeno[1,2,3-cd]pyrene	1.193	0.133	1.34	0	89.1	25	170	0		
Isophorone	1.313	0.133	1.34	0	98	25	175	0		
N-Nitrosodi-n-propylamine	1.267	0.133	1.34	0	94.5	27	135	0		
N-Nitrosodiphenylamine	1.16	0.133	1.34	0	86.6	25	135	0		
Naphthalene	1.127	0.133	1.34	0	84.1	40	135	0		
Nitrobenzene	1.3	0.133	1.34	0	97	36	143	0		
Pentachlorophenol	0.9067	0.133	1.34	0	67.7	38	146	0		
Phenanthrene	1.18	0.133	1.34	0	88.1	44	135	0		
Phenol	1.113	0.133	1.34	0	83.1	25	135	0		
Pyrene	1.12	0.133	1.34	0	83.6	37	146	0		
Surr: 2,4,6-Tribromophenol	2.52	0	2.68	0	94	60	153	0		
Surr: 2-Fluorobiphenyl	2.533	0	2.68	0	94.5	70	135	0		
Surr: 2-Fluorophenol	2.487	0	2.68	0	92.8	37	125	0		
Surr: 4-Terphenyl-d14	2.447	0	2.68	0	91.3	69	128	0		
Surr: Nitrobenzene-d5	2.733	0	2.68	0	102	45	125	0		
Surr: Phenol-d6	2.4	0	2.68	0	89.6	40	125	0		

Sample ID: **0505120-03C MS**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 7:51:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.418	0.157	1.583	0	89.6	34	152	0		
1,4-Dichlorobenzene	1.41	0.157	1.583	0	89.1	25	135	0		
2,4-Dinitrotoluene	1.694	0.157	1.583	0	107	29	149	0		
2-Chlorophenol	1.3	0.157	1.583	0	82.1	31	135	0		
4-Chloro-3-methylphenol	1.631	0.157	1.583	0	103	34	135	0		
4-Nitrophenol	1.828	0.78	1.583	0	115	25	141	0		
Acenaphthene	1.457	0.157	1.583	0	92	39	135	0		
N-Nitrosodi-n-propylamine	1.591	0.157	1.583	0	100	27	135	0		
Pentachlorophenol	1.063	0.157	1.583	0	67.2	38	146	0		
Phenol	1.379	0.157	1.583	0	87.1	25	135	0		
Pyrene	1.52	0.157	1.583	0	96	37	146	0		
Surr: 2,4,6-Tribromophenol	3.23	0	3.167	0	102	60	153	0		
Surr: 2-Fluorobiphenyl	3.135	0	3.167	0	99	70	135	0		
Surr: 2-Fluorophenol	3.08	0	3.167	0	97.3	37	125	0		
Surr: 4-Terphenyl-d14	3.285	0	3.167	0	104	69	128	0		
Surr: Nitrobenzene-d5	3.387	0	3.167	0	107	45	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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

Sample ID: **0505120-03C MS**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 7:51:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d6	2.915	0	3.167	0	92	40	125	0		

Sample ID: **0505120-03C MSD**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 8:30:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.299	0.156	1.573	0	82.6	34	152	8.73	30	
1,4-Dichlorobenzene	1.284	0.156	1.573	0	81.6	25	135	9.39	30	
2,4-Dinitrotoluene	1.581	0.156	1.573	0	100	29	149	6.88	30	
2-Chlorophenol	1.221	0.156	1.573	0	77.6	31	135	6.25	30	
4-Chloro-3-methylphenol	1.479	0.156	1.573	0	94	34	135	9.73	30	
4-Nitrophenol	1.753	0.775	1.573	0	111	25	141	4.15	30	
Acenaphthene	1.354	0.156	1.573	0	86.1	39	135	7.35	30	
N-Nitrosodi-n-propylamine	1.495	0.156	1.573	0	95	27	135	6.24	30	
Pentachlorophenol	0.9862	0.156	1.573	0	62.7	38	146	7.54	30	
Phenol	1.307	0.156	1.573	0	83.1	25	135	5.32	30	
Pyrene	1.44	0.156	1.573	0	91.5	37	146	5.42	30	
Surr: 2,4,6-Tribromophenol	3.021	0	3.146	0	96	60	153	0		
Surr: 2-Fluorobiphenyl	2.951	0	3.146	0	93.8	70	135	0		
Surr: 2-Fluorophenol	2.896	0	3.146	0	92	37	125	0		
Surr: 4-Terphenyl-d14	3.107	0	3.146	0	98.8	69	128	0		
Surr: Nitrobenzene-d5	3.193	0	3.146	0	101	45	125	0		
Surr: Phenol-d6	2.763	0	3.146	0	87.8	40	125	0		

Sample ID: **ICV1-050524**	Batch ID: **R22145**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:16:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3.8	0.133	4	0	95	80	120	0		
1,2-Dichlorobenzene	3.74	0.133	4	0	93.5	80	120	0		
1,3-Dichlorobenzene	3.8	0.133	4	0	95	80	120	0		
1,4-Dichlorobenzene	3.85	0.133	4	0	96.2	80	120	0		
2,4,5-Trichlorophenol	3.91	0.133	4	0	97.8	80	120	0		
2,4,6-Trichlorophenol	3.94	0.133	4	0	98.5	80	120	0		
2,4-Dichlorophenol	3.91	0.133	4	0	97.8	80	120	0		
2,4-Dimethylphenol	4.15	0.133	4	0	104	80	120	0		
2,4-Dinitrophenol	3.62	0.66	4	0	90.5	80	120	0		
2,4-Dinitrotoluene	4.33	0.133	4	0	108	80	120	0		
2,6-Dinitrotoluene	3.88	0.133	4	0	97	80	120	0		
2-Chloronaphthalene	3.79	0.133	4	0	94.8	80	120	0		
2-Chlorophenol	3.79	0.133	4	0	94.8	80	120	0		
2-Methylnaphthalene	3.79	0.133	4	0	94.8	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

ANALYTICAL QC SUMMARY REPORT

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

RunID: GCMS4_050524A

Sample ID: **ICV1-050524** Batch ID: **R22145** TestNo: **SW8270C** Units: **mg/Kg**

SampType: **ICV** Run ID: **GCMS4_050524A** Analysis Date: **5/24/2005 11:16:00 AM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
2-Methylphenol	3.83	0.133	4	0	95.8	80	120	0		
2-Nitroaniline	4.67	0.133	4	0	117	80	120	0		
2-Nitrophenol	4.07	0.133	4	0	102	80	120	0		
3,3'-Dichlorobenzidine	4.27	0.133	4	0	107	70	130	0		
3-Nitroaniline	3.96	0.133	4	0	99	80	120	0		
4,6-Dinitro-2-methylphenol	3.69	0.33	4	0	92.2	70	130	0		
4-Bromophenyl phenyl ether	3.9	0.133	4	0	97.5	80	120	0		
4-Chloro-3-methylphenol	4.1	0.133	4	0	103	70	130	0		
4-Chloroaniline	3.85	0.33	4	0	96.2	80	120	0		
4-Chlorophenyl phenyl ether	3.61	0.133	4	0	90.2	80	120	0		
4-Methylphenol	3.81	0.133	4	0	95.2	80	120	0		
4-Nitroaniline	3.64	0.133	4	0	91	80	120	0		
4-Nitrophenol	5.11	0.66	4	0	128	60	140	0		
Acenaphthene	3.75	0.133	4	0	93.8	80	120	0		
Acenaphthylene	3.74	0.133	4	0	93.5	80	120	0		
Aniline	3.96	0.133	4	0	99	80	120	0		
Anthracene	3.73	0.133	4	0	93.2	80	120	0		
Benzo[a]anthracene	3.79	0.133	4	0	94.8	80	120	0		
Benzo[a]pyrene	4.08	0.133	4	0	102	80	120	0		
Benzo[b]fluoranthene	4.17	0.133	4	0	104	80	120	0		
Benzo[g,h,i]perylene	4.09	0.133	4	0	102	80	120	0		
Benzo[k]fluoranthene	3.92	0.133	4	0	98	80	120	0		
Benzyl alcohol	3.94	0.33	4	0	98.5	70	130	0		
Bis(2-chloroethoxy)methane	3.94	0.133	4	0	98.5	80	120	0		
Bis(2-chloroethyl)ether	3.83	0.133	4	0	95.8	80	120	0		
Bis(2-chloroisopropyl)ether	4.04	0.133	4	0	101	80	120	0		
Bis(2-ethylhexyl)phthalate	4.3	0.133	4	0	108	80	120	0		
Butyl benzyl phthalate	4.25	0.33	4	0	106	80	120	0		
Chrysene	3.76	0.133	4	0	94	80	120	0		
Di-n-butyl phthalate	3.88	0.33	4	0	97	80	120	0		
Di-n-octyl phthalate	4.54	0.33	4	0	114	80	120	0		
Dibenz[a,h]anthracene	4.16	0.133	4	0	104	80	120	0		
Dibenzofuran	3.74	0.133	4	0	93.5	80	120	0		
Diethyl phthalate	3.81	0.33	4	0	95.2	80	120	0		
Dimethyl phthalate	3.86	0.33	4	0	96.5	80	120	0		
Fluoranthene	3.85	0.133	4	0	96.2	80	120	0		
Fluorene	3.61	0.133	4	0	90.2	80	120	0		
Hexachlorobenzene	3.8	0.133	4	0	95	80	120	0		
Hexachlorobutadiene	4.08	0.133	4	0	102	80	120	0		
Hexachlorocyclopentadiene	4.34	0.33	4	0	108	70	130	0		
Hexachloroethane	4.06	0.133	4	0	102	80	120	0		
Indeno[1,2,3-cd]pyrene	4.2	0.133	4	0	105	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID: **ICV1-050524**	Batch ID: **R22145**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:16:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Isophorone	4.36	0.133	4	0	109	80	120	0		
N-Nitrosodi-n-propylamine	4.23	0.133	4	0	106	80	120	0		
N-Nitrosodiphenylamine	3.76	0.133	4	0	94	80	120	0		
Naphthalene	3.75	0.133	4	0	93.8	80	120	0		
Nitrobenzene	4.19	0.133	4	0	105	80	120	0		
Pentachlorophenol	3.35	0.133	4	0	83.8	80	120	0		
Phenanthrene	3.73	0.133	4	0	93.2	80	120	0		
Phenol	4.08	0.133	4	0	102	80	120	0		
Pyrene	3.76	0.133	4	0	94	80	120	0		
Surr: 2,4,6-Tribromophenol	3.94	0	4	0	98.5	80	120	0		
Surr: 2-Fluorobiphenyl	3.87	0	4	0	96.8	80	120	0		
Surr: 2-Fluorophenol	3.83	0	4	0	95.8	80	120	0		
Surr: 4-Terphenyl-d14	3.83	0	4	0	95.8	80	120	0		
Surr: Nitrobenzene-d5	4.27	0	4	0	107	80	120	0		
Surr: Phenol-d6	3.79	0	4	0	94.8	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **MB-19201**	Batch ID: **19201**	TestNo: **SW8260B**		Units: **µg/Kg**	
SampType: **MBLK**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 10:36:00 PM**		Prep Date: **5/23/2005**	

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	ND	5								
1,1,1-Trichloroethane	ND	5								
1,1,2,2-Tetrachloroethane	ND	5								
1,1,2-Trichloroethane	ND	5								
1,1-Dichloroethane	ND	5								
1,1-Dichloroethene	ND	5								
1,1-Dichloropropene	ND	5								
1,2,3-Trichlorobenzene	ND	5								
1,2,3-Trichloropropane	ND	5								
1,2,4-Trichlorobenzene	ND	5								
1,2,4-Trimethylbenzene	ND	5								
1,2-Dibromo-3-chloropropane	ND	5								
1,2-Dibromoethane	ND	5								
1,2-Dichlorobenzene	ND	5								
1,2-Dichloroethane	ND	5								
1,2-Dichloropropane	ND	5								
1,3,5-Trimethylbenzene	ND	5								
1,3-Dichlorobenzene	ND	5								
1,3-Dichloropropane	ND	5								
1,4-Dichlorobenzene	ND	5								
2,2-Dichloropropane	ND	5								
2-Butanone	ND	15								
2-Chloroethylvinylether	ND	15								
2-Chlorotoluene	ND	5								
2-Hexanone	ND	15								
4-Chlorotoluene	ND	5								
4-Methyl-2-pentanone	ND	15								
Acetone	ND	50								
Benzene	ND	5								
Bromobenzene	ND	5								
Bromochloromethane	ND	5								
Bromodichloromethane	ND	5								
Bromoform	ND	5								
Bromomethane	ND	5								
Carbon disulfide	ND	15								
Carbon tetrachloride	ND	5								
Chlorobenzene	ND	5								
Chloroethane	ND	5								
Chloroform	ND	5								
Chloromethane	ND	5								
cis-1,2-Dichloroethene	ND	5								
cis-1,3-Dichloropropene	ND	5								

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **MB-19201**	Batch ID: **19201**	TestNo: **SW8260B**	Units: **µg/Kg**
SampType: **MBLK**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 10:36:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Dibromochloromethane	ND	5								
Dibromomethane	ND	5								
Dichlorodifluoromethane	ND	5								
Ethylbenzene	ND	5								
Hexachlorobutadiene	ND	5								
Iodomethane	ND	5								
Isopropylbenzene	ND	5								
m,p-Xylene	ND	5								
Methyl tert-butyl ether	ND	5								
Methylene chloride	ND	5								
n-Butylbenzene	ND	5								
n-Propylbenzene	ND	5								
Naphthalene	ND	5								
o-Xylene	ND	5								
p-Isopropyltoluene	ND	5								
sec-Butylbenzene	ND	5								
Styrene	ND	5								
tert-Butylbenzene	ND	5								
Tetrachloroethene	ND	5								
Toluene	ND	5								
trans-1,2-Dichloroethene	ND	5								
trans-1,3-Dichloropropene	ND	5								
Trichloroethene	ND	5								
Trichlorofluoromethane	ND	15								
Vinyl chloride	ND	5								
Surr: 1,2-Dichloroethane-d4	52.63	0	50	0	105	52	149	0		
Surr: 4-Bromofluorobenzene	48.11	0	50	0	96.2	65	135	0		
Surr: Dibromofluoromethane	49.68	0	50	0	99.4	65	135	0		
Surr: Toluene-d8	49.18	0	50	0	98.4	65	135	0		

Sample ID: **LCS-19201**	Batch ID: **19201**	TestNo: **SW8260B**	Units: **µg/Kg**
SampType: **LCS**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 5:39:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	23.48	5	23.2	0	101	70	130	0		
1,1,1-Trichloroethane	24.5	5	23.2	0	106	70	130	0		
1,1,2,2-Tetrachloroethane	20.94	5	23.2	0	90.3	70	130	0		
1,1,2-Trichloroethane	26.79	5	23.2	0	115	70	130	0		
1,1-Dichloroethane	24.78	5	23.2	0	107	70	130	0		
1,1-Dichloroethene	28.31	5	23.2	0	122	70	130	0		
1,1-Dichloropropene	24.68	5	23.2	0	106	70	130	0		
1,2,3-Trichlorobenzene	22.58	5	23.2	0	97.3	70	130	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0505120

Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **LCS-19201**	Batch ID: **19201**	TestNo: **SW8260B**	Units: **µg/Kg**
SampType: **LCS**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 5:39:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,2,3-Trichloropropane	22.07	5	23.2	0	95.1	70	130	0		
1,2,4-Trichlorobenzene	21.44	5	23.2	0	92.4	70	130	0		
1,2,4-Trimethylbenzene	20.53	5	23.2	0	88.5	70	130	0		
1,2-Dibromo-3-chloropropane	20.82	5	23.2	0	89.7	70	130	0		
1,2-Dibromoethane	23.4	5	23.2	0	101	70	130	0		
1,2-Dichlorobenzene	21.53	5	23.2	0	92.8	70	130	0		
1,2-Dichloroethane	24.98	5	23.2	0	108	70	130	0		
1,2-Dichloropropane	25.33	5	23.2	0	109	70	130	0		
1,3,5-Trimethylbenzene	20.38	5	23.2	0	87.8	70	130	0		
1,3-Dichlorobenzene	21.5	5	23.2	0	92.7	70	130	0		
1,3-Dichloropropane	22.52	5	23.2	0	97.1	70	130	0		
1,4-Dichlorobenzene	21.22	5	23.2	0	91.5	70	130	0		
2,2-Dichloropropane	23	5	23.2	0	99.1	70	130	0		
2-Butanone	55.45	15	46.4	0	120	50	150	0		
2-Chloroethylvinylether	31.21	15	23.2	0	135	50	150	0		
2-Chlorotoluene	20.33	5	23.2	0	87.6	70	130	0		
2-Hexanone	50.28	15	46.4	0	108	50	150	0		
4-Chlorotoluene	20.06	5	23.2	0	86.5	70	130	0		
4-Methyl-2-pentanone	49.44	15	46.4	0	107	50	150	0		
Acetone	46.61	50	46.4	0	100	50	150	0		
Benzene	25.27	5	23.2	0	109	70	130	0		
Bromobenzene	21.27	5	23.2	0	91.7	70	130	0		
Bromochloromethane	21.96	5	23.2	0	94.7	70	130	0		
Bromodichloromethane	24.32	5	23.2	0	105	70	130	0		
Bromoform	23.62	5	23.2	0	102	70	130	0		
Bromomethane	29.24	5	23.2	0	126	70	130	0		
Carbon disulfide	26.69	15	23.2	0	115	50	150	0		
Carbon tetrachloride	26.04	5	23.2	0	112	70	130	0		
Chlorobenzene	22.1	5	23.2	0	95.3	70	130	0		
Chloroethane	26.21	5	23.2	0	113	70	130	0		
Chloroform	23	5	23.2	0	99.1	70	130	0		
Chloromethane	24.79	5	23.2	0	107	70	130	0		
cis-1,2-Dichloroethene	24.5	5	23.2	0	106	70	130	0		
cis-1,3-Dichloropropene	25.41	5	23.2	0	110	70	130	0		
Dibromochloromethane	22.83	5	23.2	0	98.4	70	130	0		
Dibromomethane	26.35	5	23.2	0	114	70	130	0		
Dichlorodifluoromethane	25.73	5	23.2	0	111	70	130	0		
Ethylbenzene	22.54	5	23.2	0	97.2	70	130	0		
Hexachlorobutadiene	22.27	5	23.2	0	96	70	130	0		
Iodomethane	50.95	5	46.4	0	110	50	150	0		
Isopropylbenzene	22.76	5	23.2	0	98.1	70	130	0		
m,p-Xylene	44.87	5	46.4	0	96.7	70	130	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **LCS-19201** Batch ID: **19201** TestNo: **SW8260B** Units: **µg/Kg**
SampType: **LCS** Run ID: **GCMS2_050523B** Analysis Date: **5/23/2005 5:39:00 PM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	24.96	5	23.2	0	108	70	130	0		
Methylene chloride	23.92	5	23.2	0	103	70	130	0		
n-Butylbenzene	20.09	5	23.2	0	86.6	70	130	0		
n-Propylbenzene	19.92	5	23.2	0	85.9	70	130	0		
Naphthalene	22.36	5	23.2	0	96.4	70	130	0		
o-Xylene	22.74	5	23.2	0	98	70	130	0		
p-Isopropyltoluene	20.41	5	23.2	0	88	70	130	0		
sec-Butylbenzene	20.4	5	23.2	0	87.9	70	130	0		
Styrene	21.77	5	23.2	0	93.8	70	130	0		
tert-Butylbenzene	20.41	5	23.2	0	88	70	130	0		
Tetrachloroethene	23.21	5	23.2	0	100	70	130	0		
Toluene	27.91	5	23.2	0	120	70	130	0		
trans-1,2-Dichloroethene	24.31	5	23.2	0	105	70	130	0		
trans-1,3-Dichloropropene	25.85	5	23.2	0	111	70	130	0		
Trichloroethene	25.94	5	23.2	0	112	70	130	0		
Trichlorofluoromethane	28.09	15	23.2	0	121	70	130	0		
Vinyl chloride	27.48	5	23.2	0	118	70	130	0		
Surr: 1,2-Dichloroethane-d4	49.91	0	50	0	99.8	52	149	0		
Surr: 4-Bromofluorobenzene	46.63	0	50	0	93.3	65	135	0		
Surr: Dibromofluoromethane	50.63	0	50	0	101	65	135	0		
Surr: Toluene-d8	45.96	0	50	0	91.9	65	135	0		

Sample ID: **0505120-03A MS** Batch ID: **19201** TestNo: **SW8260B** Units: **µg/Kg-dry**
SampType: **MS** Run ID: **GCMS2_050523B** Analysis Date: **5/24/2005 3:00:00 AM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	67.19	5.84	58.37	0	115	70	130	0		
Benzene	48.63	5.84	58.37	0	83.3	70	130	0		
Chlorobenzene	35.59	5.84	58.37	0	61	70	130	0		S
Toluene	46.42	5.84	58.37	0	79.5	70	130	0		
Trichloroethene	48.88	5.84	58.37	0	83.7	70	130	0		
Surr: 1,2-Dichloroethane-d4	67.79	0	58.37	0	116	52	149	0		
Surr: 4-Bromofluorobenzene	56.28	0	58.37	0	96.4	65	135	0		
Surr: Dibromofluoromethane	55.47	0	58.37	0	95	65	135	0		
Surr: Toluene-d8	55.38	0	58.37	0	94.9	65	135	0		

Sample ID: **0505120-03A MSD** Batch ID: **19201** TestNo: **SW8260B** Units: **µg/Kg-dry**
SampType: **MSD** Run ID: **GCMS2_050523B** Analysis Date: **5/24/2005 3:32:00 AM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	72.02	6.03	60.33	0	119	70	130	6.94	30	
Benzene	49.42	6.03	60.33	0	81.9	70	130	1.61	30	

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **0505120-03A MSD**	Batch ID: **19201**	TestNo: **SW8260B**	Units: **µg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS2_050523B**	Analysis Date: **5/24/2005 3:32:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chlorobenzene	30.59	6.03	60.33	0	50.7	70	130	15.1	30	S
Toluene	41.07	6.03	60.33	0	68.1	70	130	12.2	30	S
Trichloroethene	45.33	6.03	60.33	0	75.1	70	130	7.53	30	
Surr: 1,2-Dichloroethane-d4	71.64	0	60.33	0	119	52	149	0	0	
Surr: 4-Bromofluorobenzene	59.08	0	60.33	0	97.9	65	135	0	0	
Surr: Dibromofluoromethane	57.08	0	60.33	0	94.6	65	135	0	0	
Surr: Toluene-d8	56.42	0	60.33	0	93.5	65	135	0	0	

Sample ID: **ICV-050523**	Batch ID: **R22128**	TestNo: **SW8260B**	Units: **µg/Kg**
SampType: **ICV**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 3:42:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1,1,2-Tetrachloroethane	44.56	5	46.4	0	96	75	125	0		
1,1,1-Trichloroethane	47.37	5	46.4	0	102	75	125	0		
1,1,2,2-Tetrachloroethane	38.97	5	46.4	0	84	75	125	0		
1,1,2-Trichloroethane	50.3	5	46.4	0	108	75	125	0		
1,1-Dichloroethane	47.01	5	46.4	0	101	75	125	0		
1,1-Dichloroethene	53.35	5	46.4	0	115	75	125	0		
1,1-Dichloropropene	47.47	5	46.4	0	102	75	125	0		
1,2,3-Trichlorobenzene	41.59	5	46.4	0	89.6	75	125	0		
1,2,3-Trichloropropane	41.2	5	46.4	0	88.8	75	125	0		
1,2,4-Trichlorobenzene	41.06	5	46.4	0	88.5	75	125	0		
1,2,4-Trimethylbenzene	39.35	5	46.4	0	84.8	75	125	0		
1,2-Dibromo-3-chloropropane	38.71	5	46.4	0	83.4	75	125	0		
1,2-Dibromoethane	43.53	5	46.4	0	93.8	75	125	0		
1,2-Dichlorobenzene	40.91	5	46.4	0	88.2	75	125	0		
1,2-Dichloroethane	48.09	5	46.4	0	104	75	125	0		
1,2-Dichloropropane	48.07	5	46.4	0	104	75	125	0		
1,3,5-Trimethylbenzene	38.62	5	46.4	0	83.2	75	125	0		
1,3-Dichlorobenzene	41.17	5	46.4	0	88.7	75	125	0		
1,3-Dichloropropane	41.69	5	46.4	0	89.8	75	125	0		
1,4-Dichlorobenzene	40.51	5	46.4	0	87.3	75	125	0		
2,2-Dichloropropane	45.68	5	46.4	0	98.4	75	125	0		
2-Butanone	52.97	15	46.4	0	114	60	140	0		
2-Chloroethylvinylether	59.63	15	46.4	0	129	60	140	0		
2-Chlorotoluene	37.29	5	46.4	0	80.4	75	125	0		
2-Hexanone	45.63	15	46.4	0	98.3	60	140	0		
4-Chlorotoluene	38.37	5	46.4	0	82.7	75	125	0		
4-Methyl-2-pentanone	45.81	15	46.4	0	98.7	60	140	0		
Acetone	47.94	50	46.4	0	103	60	140	0		
Benzene	47.53	5	46.4	0	102	75	125	0		
Bromobenzene	39.75	5	46.4	0	85.7	75	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_050523B

Sample ID: **ICV-050523**	Batch ID: **R22128**	TestNo: **SW8260B**	Units: **µg/Kg**
SampType: **ICV**	Run ID: **GCMS2_050523B**	Analysis Date: **5/23/2005 3:42:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromochloromethane	43.95	5	46.4	0	94.7	75	125	0		
Bromodichloromethane	46.88	5	46.4	0	101	75	125	0		
Bromoform	46.95	5	46.4	0	101	75	125	0		
Bromomethane	59.42	5	46.4	0	128	75	125	0		S
Carbon disulfide	49.61	15	46.4	0	107	60	140	0		
Carbon tetrachloride	50.72	5	46.4	0	109	75	125	0		
Chlorobenzene	41.91	5	46.4	0	90.3	75	125	0		
Chloroethane	48.44	5	46.4	0	104	75	125	0		
Chloroform	43.96	5	46.4	0	94.7	75	125	0		
Chloromethane	50.26	5	46.4	0	108	75	125	0		
cis-1,2-Dichloroethene	47.12	5	46.4	0	102	75	125	0		
cis-1,3-Dichloropropene	48.73	5	46.4	0	105	75	125	0		
Dibromochloromethane	43.34	5	46.4	0	93.4	75	125	0		
Dibromomethane	49.79	5	46.4	0	107	75	125	0		
Dichlorodifluoromethane	50.91	5	46.4	0	110	75	125	0		
Ethylbenzene	42.72	5	46.4	0	92.1	75	125	0		
Hexachlorobutadiene	41.52	5	46.4	0	89.5	75	125	0		
Iodomethane	79.03	5	92.8	0	85.2	60	140	0		
Isopropylbenzene	42.93	5	46.4	0	92.5	75	125	0		
m,p-Xylene	86.05	5	92.8	0	92.7	75	125	0		
Methyl tert-butyl ether	47.46	5	46.4	0	102	75	125	0		
Methylene chloride	44.67	5	46.4	0	96.3	75	125	0		
n-Butylbenzene	38.58	5	46.4	0	83.1	75	125	0		
n-Propylbenzene	37.72	5	46.4	0	81.3	75	125	0		
Naphthalene	39.85	5	46.4	0	85.9	75	125	0		
o-Xylene	43.13	5	46.4	0	93	75	125	0		
p-Isopropyltoluene	39.81	5	46.4	0	85.8	75	125	0		
sec-Butylbenzene	39.14	5	46.4	0	84.4	75	125	0		
Styrene	42.33	5	46.4	0	91.2	75	125	0		
tert-Butylbenzene	39.25	5	46.4	0	84.6	75	125	0		
Tetrachloroethene	43.84	5	46.4	0	94.5	75	125	0		
Toluene	51.25	5	46.4	0	110	75	125	0		
trans-1,2-Dichloroethene	45.53	5	46.4	0	98.1	75	125	0		
trans-1,3-Dichloropropene	49.91	5	46.4	0	108	75	125	0		
Trichloroethene	49.72	5	46.4	0	107	75	125	0		
Trichlorofluoromethane	53.95	15	46.4	0	116	75	125	0		
Vinyl chloride	52.52	5	46.4	0	113	75	125	0		
Surr: 1,2-Dichloroethane-d4	50.8	0	50	0	102	52	149	0		
Surr: 4-Bromofluorobenzene	45.51	0	50	0	91	65	135	0		
Surr: Dibromofluoromethane	50.93	0	50	0	102	65	135	0		
Surr: Toluene-d8	45.05	0	50	0	90.1	65	135	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050518A

Sample ID: **0505115-02A DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_050518A**	Analysis Date: **5/19/2005 10:15:00 AM**	Prep Date: **5/18/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	21.34	0	0	23.79	0	0	0	10.9	30	

Sample ID: **0505116-07A DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_050518A**	Analysis Date: **5/19/2005 10:15:00 AM**	Prep Date: **5/18/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	1.133	0	0	1.049	0	0	0	7.74	30	

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0505120
Project: Sii, Smith Services Drilco-Hobbs, ESA/REM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050519A

Sample ID: **0505123-02A DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.28	0	0	16.27	0	0	0	0.0587	30	

Sample ID: **0505125-01B DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.91	0	0	14.71	0	0	0	14.0	30	

Qualifiers:

ND - Not Detected at the Method Detection 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

DHL ANALYTICAL

May 27, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii, Smith Services Drilco-Hobbs, NM

Order No.: 0505125

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 28 samples on 5/18/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii, Smith Services Drilco-Hobbs, NM (DHL Work Order 0505125) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-6
• Case Narrative	7
• Work Order Sample Summary	8
• Preparation Dates Report	9-12
• Analytical Dates Report	13-16
• Sample Results	17-58
• QC Summary Report	59-79
• Total Number of Pages	79

May 27, 2005

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL
2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 22416

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi email: Klampi@cox.NET

DATE: 17-MAY 2005 PAGE 1 OF 2
PO #: DHL WORK ORDER #: 0505125
PROJECT LOCATION OR NAME: SII, Smith Services Drilco-Hobbs, NM
CLIENT PROJECT #: Drilco Hobbs 110403 COLLECTOR: K. LAMPI Rem

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Sample Prefix NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass 4oz

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☒ NM 8ORO | VOC 8260 ☐ | SVOC 8270 ☒ | 8081 PESTICIDES ☐ PAH 8270 ☐ HOLDPAH ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ 8151 HERBICIDES ☐ | TCLP - PEST ☐ HERB ☐ TCLP VOC ☐ | TOTAL METALS (RCRA) ☐ Semi-VOC ☐ | LEAD - TOTAL ☒ OTHER LIST ☐ | RCI ☐ TOX ☐ D.W. 200.8 ☐ TCLP ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ FLASHPOINT ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ | As - Total | Cr - Total | FIELD NOTES

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX	TRPH 418.1	GASOLINE MOD 8015	DIESEL - MOD 8015 ☒ NM 8ORO	VOC 8260	SVOC 8270 ☒	8081 PESTICIDES	PAH 8270	8082 PCBS	TCLP - METALS (RCRA)	8151 HERBICIDES	TCLP - PEST	TCLP VOC	TOTAL METALS (RCRA)	Semi-VOC	LEAD - TOTAL ☒	OTHER LIST	RCI	TOX	D.W. 200.8	TCLP	TDS	TSS	% MOISTURE	FLASHPOINT	pH	HEXAVALENT CHROMIUM	CYANIDE	EXPLOSIVES	PECHLORATE	CHLORIDE	ANIONS	ALKALINITY	As - Total	Cr - Total	FIELD NOTES
1-11	01	5/17	1330	S	G	2				X					X								X																			X	X	
1-12	02	5/17	1335	S	G	2				X					X								X																			X	X	
1-13	03	5/17	1340	S	G	2				X					X								X																			X	X	
CO 1-14	04	5/17	1345	S	G	2				X					X								X																			X	X	
1-15	05	5/17	1350	S	G	2				X					X								X																			X	X	
1-16	06	5/17	1355	S	G	2				X					X								X																			X	X	
1-17	07	5/17	1400	S	G	2				X					X								X																			X	X	
1-18	08	5/17	1405	S	G	2				X					X								X																			X	X	
1-19	09	5/17	1410	S	G	2				X					X								X																			X	X	
1-20	10	5/17	1415	S	G	2				X					X								X																			X	X	
1-21	11	5/17	1420	S	G	2				X					X								X																			X	X	
1-22	12	5/17	1425	S	G	2				X					X								X																			X	X	
1-23	13	5/17	1430	S	G	2				X					X		X						X																			X		
1-24	14	5/17	1435	S	G	2				X					X		X						X																			X		
1-25	15	5/17	1440	S	G	2				X					X		X						X																			X		
TOTAL																																														

RELINQUISHED BY: (Signature) Kent W. Lampi DATE/TIME 5-17-05 1600 RECEIVED BY: (Signature) FED EX
RELINQUISHED BY: (Signature) FED EX DATE/TIME 5-18-5 0815 RECEIVED BY: (Signature) Mat Word
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5 5.5 THERM #: 12
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FED EX
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL
2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 27581

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 17 May 2005 PAGE 2 OF 2
PO #: DHL WORK ORDER #: 0505125
PROJECT LOCATION OR NAME: Sii, Smith Services Drilco - Hobbs, NM
CLIENT PROJECT #: Drilco Hobbs 110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No
Sample Prefix: NM-HB-DRL

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass 4oz

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 X NM & OTO | VOC 8260 ☐ | SVOC 8270 X PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL X D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ | As - Total | Cr - Total | FIELD NOTES

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 X NM & OTO	VOC 8260 ☐	SVOC 8270 X PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL X D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	As - Total	Cr - Total	FIELD NOTES
1-26	16	5/17	1445	S	G	2				X					X	X					X						X				
1-27	17	5/17	1450	S	G	2				X					X	X					X						X				
1-28	18	5/17	1455	S	G	2				X					X	X					X						X				
1-29	19	5/17	1500	S	G	1				X																	X				
1-30	20	5/17	1505	S	G	1				X																	X				
1-31	21	5/17	1510	S	G	1				X																	X				
1-32	22	5/17	1515	S	G	1				X																	X				
1-33	23	5/17	1520	S	G	1				X																	X				
1-34	24	5/17	1525	S	G	1				X																	X				
1-35	25	5/17	1530	S	G	1				X				X							X						X	X			
1-36	26	5/17	1535	S	G	1				X				X							X						X	X			
1-37	27	5/17	1540	S	G	1				X				X	X						X						X				
1-38	28	5/17	1545	S	G	1				X																	X				
TOTAL																															

RELINQUISHED BY: (Signature) Matt M. Lampi DATE/TIME 5/17/05 1600 RECEIVED BY: (Signature) FED EX
RELINQUISHED BY: (Signature) FED EX DATE/TIME 5-18-5 0815 RECEIVED BY: (Signature) Matt Lampi
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL X
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5 5.5 THERM #: 42
CUSTODY SEALS - ☐ BROKEN X INTACT ☐ NOT USED
☐ CARRIER BILL # FED EX
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express **USA Airbill**

FedEx Tracking Number 8398 9314 4404

Form I.D. No. 0200

1 From

Date 5/17/05

Sender's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted] Dept/Floor/Suite/Room

City [redacted] State [redacted] ZIP [redacted]

2 Your Internal Billing Reference [redacted]

3 To

Recipient's Name [redacted] Phone [redacted]

Company [redacted]

Address [redacted]

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes

Address Dept/Floor/Suite/Room

City [redacted] State TX ZIP [redacted]

8398 9314 4404

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* — [ ] Obtain Recip. Acct. No.

Enter FedEx Acct. No. or Credit Card No. below

- [X] Sender — Acct No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
[redacted]	[redacted]	$ [redacted] .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

Rev. Date 10/01 • Part #157611 • ©1994–2001 FedEx • PRINTED IN U.S.A. WCSL 03

446

1600

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

CUSTODY SEAL
DATE 17 MAY 05
SIGNATURE [redacted]

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 5/18/2005

Work Order Numbe 0505125 | Received by MLW

Checklist completed by [signature] Signature 5/18/05 Date | Reviewed by CJD Initials 5/18/05 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked b _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM
Lab Order: 0505125

CASE NARRATIVE

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method SW8270C - Semivolatile Organics
Method SW7470A - Mercury Analysis
Method M8015D - DRO/ORO
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 5/18/05. A total of 28 samples were received. The samples arrived in good condition and were properly packaged.

SEMIVOLATILE ORGANICS

For Semivolatiles analysis performed on 5/24/05 the LCS recovery was slightly above control limits for Hexachlorocyclopentadiene. This is flagged accordingly in the QC summary report. No further corrective actions were required and no sample results were adversely affected.

DRO/ORO

For DRO/ORO analysis performed on 5/23/05 the surrogate recovery for the ICV was below control limits. This is flagged accordingly in the QC summary report. No further corrective actions were required and no sample results were adversely affected.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

DHL Analytical **Date:** *27-May-05*

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM
Lab Order: 0505125

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0505125-01	NM-HB-DRL-1-11		5/17/2005 1:30:00 PM	5/18/2005
0505125-02	NM-HB-DRL-1-12		5/17/2005 1:35:00 PM	5/18/2005
0505125-03	NM-HB-DRL-1-13		5/17/2005 1:40:00 PM	5/18/2005
0505125-04	NM-HB-DRL-1-14		5/17/2005 1:45:00 PM	5/18/2005
0505125-05	NM-HB-DRL-1-15		5/17/2005 1:50:00 PM	5/18/2005
0505125-06	NM-HB-DRL-1-16		5/17/2005 1:55:00 PM	5/18/2005
0505125-07	NM-HB-DRL-1-17		5/17/2005 2:00:00 PM	5/18/2005
0505125-08	NM-HB-DRL-1-18		5/17/2005 2:05:00 PM	5/18/2005
0505125-09	NM-HB-DRL-1-19		5/17/2005 2:10:00 PM	5/18/2005
0505125-10	NM-HB-DRL-1-20		5/17/2005 2:15:00 PM	5/18/2005
0505125-11	NM-HB-DRL-1-21		5/17/2005 2:20:00 PM	5/18/2005
0505125-12	NM-HB-DRL-1-22		5/17/2005 2:25:00 PM	5/18/2005
0505125-13	NM-HB-DRL-1-23		5/17/2005 2:30:00 PM	5/18/2005
0505125-14	NM-HB-DRL-1-24		5/17/2005 2:35:00 PM	5/18/2005
0505125-15	NM-HB-DRL-1-25		5/17/2005 2:40:00 PM	5/18/2005
0505125-16	NM-HB-DRL-1-26		5/17/2005 2:45:00 PM	5/18/2005
0505125-17	NM-HB-DRL-1-27		5/17/2005 2:50:00 PM	5/18/2005
0505125-18	NM-HB-DRL-1-28		5/17/2005 2:55:00 PM	5/18/2005
0505125-19	NM-HB-DRL-1-29		5/17/2005 3:00:00 PM	5/18/2005
0505125-20	NM-HB-DRL-1-30		5/17/2005 3:05:00 PM	5/18/2005
0505125-21	NM-HB-DRL-1-31		5/17/2005 3:10:00 PM	5/18/2005
0505125-22	NM-HB-DRL-1-32		5/17/2005 3:15:00 PM	5/18/2005
0505125-23	NM-HB-DRL-1-33		5/17/2005 3:20:00 PM	5/18/2005
0505125-24	NM-HB-DRL-1-34		5/17/2005 3:25:00 PM	5/18/2005
0505125-25	NM-HB-DRL-1-35		5/17/2005 3:30:00 PM	5/18/2005
0505125-26	NM-HB-DRL-1-36		5/17/2005 3:35:00 PM	5/18/2005
0505125-27	NM-HB-DRL-1-37		5/17/2005 3:40:00 PM	5/18/2005
0505125-28	NM-HB-DRL-1-38		3/17/2005 3:45:00 PM	5/18/2005

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0505125-01B	NM-HB-DRL-1-11	5/17/2005 1:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-1-11	5/17/2005 1:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-11	5/17/2005 1:30:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-11	5/17/2005 1:30:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
	NM-HB-DRL-1-11	5/17/2005 1:30:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-02B	NM-HB-DRL-1-12	5/17/2005 1:35:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-12	5/17/2005 1:35:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-12	5/17/2005 1:35:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-03B	NM-HB-DRL-1-13	5/17/2005 1:40:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-13	5/17/2005 1:40:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-13	5/17/2005 1:40:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-04B	NM-HB-DRL-1-14	5/17/2005 1:45:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-14	5/17/2005 1:45:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-14	5/17/2005 1:45:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-05B	NM-HB-DRL-1-15	5/17/2005 1:50:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-15	5/17/2005 1:50:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-15	5/17/2005 1:50:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-06B	NM-HB-DRL-1-16	5/17/2005 1:55:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-16	5/17/2005 1:55:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/24/2005 8:50:52 AM	19206
	NM-HB-DRL-1-16	5/17/2005 1:55:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-07B	NM-HB-DRL-1-17	5/17/2005 2:00:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-17	5/17/2005 2:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-17	5/17/2005 2:00:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0505125-08B	NM-HB-DRL-1-18	5/17/2005 2:05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-18	5/17/2005 2:05:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-18	5/17/2005 2:05:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-09B	NM-HB-DRL-1-19	5/17/2005 2:10:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-19	5/17/2005 2:10:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-19	5/17/2005 2:10:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-10B	NM-HB-DRL-1-20	5/17/2005 2:15:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-20	5/17/2005 2:15:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-20	5/17/2005 2:15:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-11B	NM-HB-DRL-1-21	5/17/2005 2:20:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-21	5/17/2005 2:20:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-21	5/17/2005 2:20:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-12B	NM-HB-DRL-1-22	5/17/2005 2:25:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-22	5/17/2005 2:25:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-22	5/17/2005 2:25:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-13A	NM-HB-DRL-1-23	5/17/2005 2:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-23	5/17/2005 2:30:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-13B	NM-HB-DRL-1-23	5/17/2005 2:30:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-23	5/17/2005 2:30:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505125-14A	NM-HB-DRL-1-24	5/17/2005 2:35:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-24	5/17/2005 2:35:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-14B	NM-HB-DRL-1-24	5/17/2005 2:35:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-24	5/17/2005 2:35:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0505125-15A	NM-HB-DRL-1-25	5/17/2005 2:40:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-25	5/17/2005 2:40:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-15B	NM-HB-DRL-1-25	5/17/2005 2:40:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-25	5/17/2005 2:40:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505125-16A	NM-HB-DRL-1-26	5/17/2005 2:45:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-26	5/17/2005 2:45:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-16B	NM-HB-DRL-1-26	5/17/2005 2:45:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-26	5/17/2005 2:45:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505125-17A	NM-HB-DRL-1-27	5/17/2005 2:50:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/20/2005 9:00:00 AM	19162
	NM-HB-DRL-1-27	5/17/2005 2:50:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-27	5/17/2005 2:50:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
	NM-HB-DRL-1-27	5/17/2005 2:50:00 PM	Soil	D2216	Percent Moisture	5/19/2005	PMOIST-5/20/05B
0505125-18A	NM-HB-DRL-1-28	5/17/2005 2:55:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-28	5/17/2005 2:55:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-18B	NM-HB-DRL-1-28	5/17/2005 2:55:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-28	5/17/2005 2:55:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
0505125-19A	NM-HB-DRL-1-29	5/17/2005 3:00:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-29	5/17/2005 3:00:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-20A	NM-HB-DRL-1-30	5/17/2005 3:05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-30	5/17/2005 3:05:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-21A	NM-HB-DRL-1-31	5/17/2005 3:10:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-31	5/17/2005 3:10:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-22A	NM-HB-DRL-1-32	5/17/2005 3:15:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0505125-22A	NM-HB-DRL-1-32	5/17/2005 3:15:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-23A	NM-HB-DRL-1-33	5/17/2005 3:20:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-33	5/17/2005 3:20:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-24A	NM-HB-DRL-1-34	5/17/2005 3:25:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-34	5/17/2005 3:25:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-25A	NM-HB-DRL-1-35	5/17/2005 3:30:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-35	5/17/2005 3:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-35	5/17/2005 3:30:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-26A	NM-HB-DRL-1-36	5/17/2005 3:35:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-36	5/17/2005 3:35:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-36	5/17/2005 3:35:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-27A	NM-HB-DRL-1-37	5/17/2005 3:40:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	5/20/2005 8:56:01 AM	19167
	NM-HB-DRL-1-37	5/17/2005 3:40:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-37	5/17/2005 3:40:00 PM	Soil	SW3550B	Soil Prep Sonication: BNA	5/23/2005 1:42:03 PM	19196
	NM-HB-DRL-1-37	5/17/2005 3:40:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A
0505125-28A	NM-HB-DRL-1-38	3/17/2005 3:45:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/23/2005 9:00:00 AM	19183
	NM-HB-DRL-1-38	3/17/2005 3:45:00 PM	Soil	D2216	Percent Moisture	5/23/2005	PMOIST-5/24/05A

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505125-01B	NM-HB-DRL-1-11	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 5:27:00 PM	ICP-MS_050519A
	NM-HB-DRL-1-11	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:29:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-11	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 1:44:32 PM	GC15_050524A
	NM-HB-DRL-1-11	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
	NM-HB-DRL-1-11	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-02B	NM-HB-DRL-1-12	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:33:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-12	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 2:10:03 PM	GC15_050524A
	NM-HB-DRL-1-12	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-03B	NM-HB-DRL-1-13	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:37:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-13	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 2:35:39 PM	GC15_050524A
	NM-HB-DRL-1-13	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-04B	NM-HB-DRL-1-14	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:42:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-14	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 3:01:19 PM	GC15_050524A
	NM-HB-DRL-1-14	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-05B	NM-HB-DRL-1-15	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:46:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-15	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 3:27:03 PM	GC15_050524A
	NM-HB-DRL-1-15	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-06B	NM-HB-DRL-1-16	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:50:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-16	Soil	M8015D	GC/FID - Soil DRO+ORO	19206	1	5/24/2005 4:43:58 PM	GC15_050524A
	NM-HB-DRL-1-16	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-07B	NM-HB-DRL-1-17	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:54:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-17	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 12:14:27 PM	GC15_050523A
	NM-HB-DRL-1-17	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505125-08B	NM-HB-DRL-1-18	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 1:58:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-18	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 12:39:59 PM	GC15_050523A
	NM-HB-DRL-1-18	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-09B	NM-HB-DRL-1-19	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 2:54:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-19	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 1:05:32 PM	GC15_050523A
	NM-HB-DRL-1-19	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-10B	NM-HB-DRL-1-20	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 2:58:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-20	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 4:58:48 PM	GC15_050523A
	NM-HB-DRL-1-20	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-11B	NM-HB-DRL-1-21	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 10:19:00 PM	ICP-MS2_050523A
	NM-HB-DRL-1-21	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 10:58:15 AM	GC15_050523B
	NM-HB-DRL-1-21	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-12B	NM-HB-DRL-1-22	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/24/2005 7:23:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-22	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 11:23:31 AM	GC15_050523B
	NM-HB-DRL-1-22	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-13A	NM-HB-DRL-1-23	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/24/2005 7:27:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-23	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-13B	NM-HB-DRL-1-23	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 11:48:54 AM	GC15_050523B
	NM-HB-DRL-1-23	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 3:14:00 PM	GCMS4_050524A
0505125-14A	NM-HB-DRL-1-24	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/24/2005 7:31:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-24	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-14B	NM-HB-DRL-1-24	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 12:14:27 PM	GC15_050523B
	NM-HB-DRL-1-24	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 3:53:00 PM	GCMS4_050524A

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505125-15A	NM-HB-DRL-1-25	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/24/2005 7:35:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-25	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-15B	NM-HB-DRL-1-25	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 12:39:59 PM	GC15_050523B
	NM-HB-DRL-1-25	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 4:33:00 PM	GCMS4_050524A
0505125-16A	NM-HB-DRL-1-26	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/24/2005 7:39:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-26	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-16B	NM-HB-DRL-1-26	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 1:05:32 PM	GC15_050523B
	NM-HB-DRL-1-26	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 5:13:00 PM	GCMS4_050524A
0505125-17A	NM-HB-DRL-1-27	Soil	SW6020	Trace Metals: ICP-MS - Soil	19162	5	5/23/2005 2:46:00 PM	ICP-MS_050523A
	NM-HB-DRL-1-27	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 5:24:44 PM	GC15_050523A
	NM-HB-DRL-1-27	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 5:53:00 PM	GCMS4_050524A
	NM-HB-DRL-1-27	Soil	D2216	Percent Moisture	PMOIST-5/20/05B	1	5/19/2005 5:15:00 PM	PMOIST_050519B
0505125-18A	NM-HB-DRL-1-28	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 8:35:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-28	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-18B	NM-HB-DRL-1-28	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 5:50:39 PM	GC15_050523A
	NM-HB-DRL-1-28	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 6:32:00 PM	GCMS4_050524A
0505125-19A	NM-HB-DRL-1-29	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 8:43:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-29	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-20A	NM-HB-DRL-1-30	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 8:47:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-30	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-21A	NM-HB-DRL-1-31	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:31:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-31	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-22A	NM-HB-DRL-1-32	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:36:00 PM	ICP-MS_050524A

Lab Order: 0505125
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505125-22A	NM-HB-DRL-1-32	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-23A	NM-HB-DRL-1-33	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:40:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-33	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-24A	NM-HB-DRL-1-34	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:44:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-34	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-25A	NM-HB-DRL-1-35	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 6:16:30 PM	GC15_050523A
	NM-HB-DRL-1-35	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:48:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-35	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-26A	NM-HB-DRL-1-36	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 6:42:17 PM	GC15_050523A
	NM-HB-DRL-1-36	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:52:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-36	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-27A	NM-HB-DRL-1-37	Soil	M8015D	GC/FID - Soil DRO+ORO	19167	1	5/23/2005 7:07:53 PM	GC15_050523A
	NM-HB-DRL-1-37	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 9:56:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-37	Soil	SW8270C	Semivolatiles by GC/MS	19196	1	5/24/2005 7:12:00 PM	GCMS4_050524A
	NM-HB-DRL-1-37	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A
0505125-28A	NM-HB-DRL-1-38	Soil	SW6020	Trace Metals: ICP-MS - Soil	19183	5	5/24/2005 10:00:00 PM	ICP-MS_050524A
	NM-HB-DRL-1-38	Soil	D2216	Percent Moisture	PMOIST-5/24/05A	1	5/23/2005 3:30:00 PM	PMOIST_050523A

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-11
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:30:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.4	11.2		mg/Kg-dry	1	5/24/2005 1:44:32 PM
TPH-ORO >C28-C35	ND	3.4	11.2		mg/Kg-dry	1	5/24/2005 1:44:32 PM
Surr: o-Terphenyl	90.5	0	47-142		%REC	1	5/24/2005 1:44:32 PM
Surr: Octacosane	106	0	25-162		%REC	1	5/24/2005 1:44:32 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.22	0.55	1.11		mg/Kg-dry	5	5/19/2005 5:27:00 PM
Chromium	12.5	0.55	2.21		mg/Kg-dry	5	5/19/2005 5:27:00 PM
Lead	8.07	0.11	0.332		mg/Kg-dry	5	5/19/2005 5:27:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	14.7	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-12
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:35:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.5	11.6		mg/Kg-dry	1	5/24/2005 2:10:03 PM
TPH-ORO >C28-C35	ND	3.5	11.6		mg/Kg-dry	1	5/24/2005 2:10:03 PM
Surr: o-Terphenyl	89.8	0	47-142		%REC	1	5/24/2005 2:10:03 PM
Surr: Octacosane	105	0	25-162		%REC	1	5/24/2005 2:10:03 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.27	0.51	1.02		mg/Kg-dry	5	5/23/2005 1:33:00 PM
Chromium	14.0	0.51	2.04		mg/Kg-dry	5	5/23/2005 1:33:00 PM
Lead	29.0	0.10	0.306		mg/Kg-dry	5	5/23/2005 1:33:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	16.8	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-13
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-03
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.5	11.8		mg/Kg-dry	1	5/24/2005 2:35:39 PM
TPH-ORO >C28-C35	ND	3.5	11.8		mg/Kg-dry	1	5/24/2005 2:35:39 PM
Surr: o-Terphenyl	91.9	0	47-142		%REC	1	5/24/2005 2:35:39 PM
Surr: Octacosane	108	0	25-162		%REC	1	5/24/2005 2:35:39 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.10	0.55	1.10		mg/Kg-dry	5	5/23/2005 1:37:00 PM
Chromium	11.3	0.55	2.21		mg/Kg-dry	5	5/23/2005 1:37:00 PM
Lead	6.17	0.11	0.331		mg/Kg-dry	5	5/23/2005 1:37:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	19.1	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-14
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-04
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:45:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.2	10.8		mg/Kg-dry	1	5/24/2005 3:01:19 PM
TPH-ORO >C28-C35	ND	3.2	10.8		mg/Kg-dry	1	5/24/2005 3:01:19 PM
Surr: o-Terphenyl	89.4	0	47-142		%REC	1	5/24/2005 3:01:19 PM
Surr: Octacosane	106	0	25-162		%REC	1	5/24/2005 3:01:19 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.36	0.55	1.11		mg/Kg-dry	5	5/23/2005 1:42:00 PM
Chromium	13.1	0.55	2.21		mg/Kg-dry	5	5/23/2005 1:42:00 PM
Lead	8.66	0.11	0.332		mg/Kg-dry	5	5/23/2005 1:42:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	13.1	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-15
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:50:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.4	11.2		mg/Kg-dry	1	5/24/2005 3:27:03 PM
TPH-ORO >C28-C35	ND	3.4	11.2		mg/Kg-dry	1	5/24/2005 3:27:03 PM
Surr: o-Terphenyl	86.9	0	47-142		%REC	1	5/24/2005 3:27:03 PM
Surr: Octacosane	103	0	25-162		%REC	1	5/24/2005 3:27:03 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.45	0.54	1.08		mg/Kg-dry	5	5/23/2005 1:46:00 PM
Chromium	11.9	0.54	2.16		mg/Kg-dry	5	5/23/2005 1:46:00 PM
Lead	7.10	0.11	0.323		mg/Kg-dry	5	5/23/2005 1:46:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	14.1	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-16
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 1:55:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.3	10.9		mg/Kg-dry	1	5/24/2005 4:43:58 PM
TPH-ORO >C28-C35	ND	3.3	10.9		mg/Kg-dry	1	5/24/2005 4:43:58 PM
Surr: o-Terphenyl	86.0	0	47-142		%REC	1	5/24/2005 4:43:58 PM
Surr: Octacosane	104	0	25-162		%REC	1	5/24/2005 4:43:58 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.06	0.50	1.01		mg/Kg-dry	5	5/23/2005 1:50:00 PM
Chromium	10.8	0.50	2.02		mg/Kg-dry	5	5/23/2005 1:50:00 PM
Lead	9.64	0.10	0.303		mg/Kg-dry	5	5/23/2005 1:50:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	13.8	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-17
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-07
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:00:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.3	11.1		mg/Kg-dry	1	5/23/2005 12:14:27 PM
TPH-ORO >C28-C35	ND	3.3	11.1		mg/Kg-dry	1	5/23/2005 12:14:27 PM
Surr: o-Terphenyl	87.6	0	47-142		%REC	1	5/23/2005 12:14:27 PM
Surr: Octacosane	100	0	25-162		%REC	1	5/23/2005 12:14:27 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.28	0.56	1.11		mg/Kg-dry	5	5/23/2005 1:54:00 PM
Chromium	10.8	0.56	2.22		mg/Kg-dry	5	5/23/2005 1:54:00 PM
Lead	6.41	0.11	0.333		mg/Kg-dry	5	5/23/2005 1:54:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	13.5	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-18
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-08
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:05:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.2	10.8		mg/Kg-dry	1	5/23/2005 12:39:59 PM
TPH-ORO >C28-C35	ND	3.2	10.8		mg/Kg-dry	1	5/23/2005 12:39:59 PM
Surr: o-Terphenyl	88.3	0	47-142		%REC	1	5/23/2005 12:39:59 PM
Surr: Octacosane	102	0	25-162		%REC	1	5/23/2005 12:39:59 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	6.45	0.53	1.06		mg/Kg-dry	5	5/23/2005 1:58:00 PM
Chromium	3.29	0.53	2.12		mg/Kg-dry	5	5/23/2005 1:58:00 PM
Lead	6.85	0.11	0.319		mg/Kg-dry	5	5/23/2005 1:58:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.3	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-19
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-09
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:10:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.4	11.4		mg/Kg-dry	1	5/23/2005 1:05:32 PM
TPH-ORO >C28-C35	ND	3.4	11.4		mg/Kg-dry	1	5/23/2005 1:05:32 PM
Surr: o-Terphenyl	91.3	0	47-142		%REC	1	5/23/2005 1:05:32 PM
Surr: Octacosane	111	0	25-162		%REC	1	5/23/2005 1:05:32 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.39	0.58	1.16		mg/Kg-dry	5	5/23/2005 2:54:00 PM
Chromium	9.04	0.58	2.32		mg/Kg-dry	5	5/23/2005 2:54:00 PM
Lead	5.86	0.12	0.348		mg/Kg-dry	5	5/23/2005 2:54:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	14.6	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-20
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-10
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:15:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.2	10.6		mg/Kg-dry	1	5/23/2005 4:58:48 PM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	5/23/2005 4:58:48 PM
Surr: o-Terphenyl	85.5	0	47-142		%REC	1	5/23/2005 4:58:48 PM
Surr: Octacosane	98.9	0	25-162		%REC	1	5/23/2005 4:58:48 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.31	0.55	1.11		mg/Kg-dry	5	5/23/2005 2:58:00 PM
Chromium	11.5	0.55	2.21		mg/Kg-dry	5	5/23/2005 2:58:00 PM
Lead	8.18	0.11	0.332		mg/Kg-dry	5	5/23/2005 2:58:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.6	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-21
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-11
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:20:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	113	3.2	10.6		mg/Kg-dry	1	5/23/2005 10:58:15 AM
TPH-ORO >C28-C35	58.2	3.2	10.6		mg/Kg-dry	1	5/23/2005 10:58:15 AM
Surr: o-Terphenyl	78.0	0	47-142		%REC	1	5/23/2005 10:58:15 AM
Surr: Octacosane	64.0	0	25-162		%REC	1	5/23/2005 10:58:15 AM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.63	0.53	1.05		mg/Kg-dry	5	5/23/2005 10:19:00 PM
Chromium	39.1	0.53	2.11		mg/Kg-dry	5	5/23/2005 10:19:00 PM
Lead	66.1	0.11	0.316		mg/Kg-dry	5	5/23/2005 10:19:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.55	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-22
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-12
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:25:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.0	10.1		mg/Kg-dry	1	5/23/2005 11:23:31 AM
TPH-ORO >C28-C35	3.5	3.0	10.1	J	mg/Kg-dry	1	5/23/2005 11:23:31 AM
Surr: o-Terphenyl	81.6	0	47-142		%REC	1	5/23/2005 11:23:31 AM
Surr: Octacosane	67.1	0	25-162		%REC	1	5/23/2005 11:23:31 AM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.60	0.50	0.995		mg/Kg-dry	5	5/24/2005 7:23:00 PM
Chromium	9.20	0.50	1.99		mg/Kg-dry	5	5/24/2005 7:23:00 PM
Lead	5.18	0.10	0.299		mg/Kg-dry	5	5/24/2005 7:23:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.46	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-23
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-13
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:30:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
1,2-Dichlorobenzene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
1,3-Dichlorobenzene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
1,4-Dichlorobenzene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4,5-Trichlorophenol	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4,6-Trichlorophenol	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4-Dichlorophenol	ND	0.068	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4-Dimethylphenol	ND	0.091	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4-Dinitrophenol	ND	0.068	0.748		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,4-Dinitrotoluene	ND	0.068	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2,6-Dinitrotoluene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Chloronaphthalene	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Chlorophenol	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Methylnaphthalene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Methylphenol	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Nitroaniline	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
2-Nitrophenol	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
3,3'-Dichlorobenzidine	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
3-Nitroaniline	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4,6-Dinitro-2-methylphenol	ND	0.091	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Bromophenyl phenyl ether	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Chloro-3-methylphenol	ND	0.068	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Chloroaniline	ND	0.057	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Chlorophenyl phenyl ether	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Methylphenol	ND	0.11	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Nitroaniline	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
4-Nitrophenol	ND	0.16	0.748		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Acenaphthene	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Acenaphthylene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Aniline	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Anthracene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzo[a]anthracene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzo[a]pyrene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzo[b]fluoranthene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzo[g,h,i]perylene	ND	0.068	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzo[k]fluoranthene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Benzyl alcohol	ND	0.045	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Bis(2-chloroethoxy)methane	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Bis(2-chloroethyl)ether	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Bis(2-chloroisopropyl)ether	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-23
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-13
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:30:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Butyl benzyl phthalate	ND	0.11	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Chrysene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Di-n-butyl phthalate	ND	0.11	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Di-n-octyl phthalate	ND	0.11	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Dibenz[a,h]anthracene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Dibenzofuran	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Diethyl phthalate	ND	0.11	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Dimethyl phthalate	ND	0.11	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Fluoranthene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Fluorene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Hexachlorobenzene	ND	0.011	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Hexachlorobutadiene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Hexachlorocyclopentadiene	ND	0.068	0.374		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Hexachloroethane	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Isophorone	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
N-Nitrosodi-n-propylamine	ND	0.057	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
N-Nitrosodiphenylamine	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Naphthalene	ND	0.045	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Nitrobenzene	ND	0.079	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Pentachlorophenol	ND	0.10	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Phenanthrene	ND	0.034	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Phenol	ND	0.068	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Pyrene	ND	0.023	0.151		mg/Kg-dry	1	5/24/2005 3:14:00 PM
Surr: 2,4,6-Tribromophenol	100	0	60-153		%REC	1	5/24/2005 3:14:00 PM
Surr: 2-Fluorobiphenyl	108	0	70-135		%REC	1	5/24/2005 3:14:00 PM
Surr: 2-Fluorophenol	98.8	0	37-125		%REC	1	5/24/2005 3:14:00 PM
Surr: 4-Terphenyl-d14	106	0	69-128		%REC	1	5/24/2005 3:14:00 PM
Surr: Nitrobenzene-d5	109	0	45-125		%REC	1	5/24/2005 3:14:00 PM
Surr: Phenol-d6	95.5	0	40-125		%REC	1	5/24/2005 3:14:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	4.2	3.3	11.0	J	mg/Kg-dry	1	5/23/2005 11:48:54 AM
TPH-ORO >C28-C35	ND	3.3	11.0		mg/Kg-dry	1	5/23/2005 11:48:54 AM
Surr: o-Terphenyl	83.4	0	47-142		%REC	1	5/23/2005 11:48:54 AM
Surr: Octacosane	71.6	0	25-162		%REC	1	5/23/2005 11:48:54 AM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.21	0.51	1.03		mg/Kg-dry	5	5/24/2005 7:27:00 PM
Lead	7.11	0.10	0.309		mg/Kg-dry	5	5/24/2005 7:27:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-23
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-13
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:30:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	14.0	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-24
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-14
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:35:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
1,2-Dichlorobenzene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
1,3-Dichlorobenzene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
1,4-Dichlorobenzene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4,5-Trichlorophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4,6-Trichlorophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4-Dichlorophenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4-Dimethylphenol	ND	0.088	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4-Dinitrophenol	ND	0.066	0.730		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,4-Dinitrotoluene	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2,6-Dinitrotoluene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Chloronaphthalene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Chlorophenol	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Methylnaphthalene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Methylphenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Nitroaniline	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
2-Nitrophenol	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
3,3'-Dichlorobenzidine	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
3-Nitroaniline	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4,6-Dinitro-2-methylphenol	ND	0.088	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Chloro-3-methylphenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Chloroaniline	ND	0.055	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Methylphenol	ND	0.11	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Nitroaniline	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
4-Nitrophenol	ND	0.15	0.730		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Acenaphthene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Acenaphthylene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Aniline	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Anthracene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzo[a]anthracene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzo[a]pyrene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzo[b]fluoranthene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzo[g,h,i]perylene	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzo[k]fluoranthene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Benzyl alcohol	ND	0.044	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Bis(2-chloroethoxy)methane	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Bis(2-chloroethyl)ether	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-24
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-14
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:35:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Butyl benzyl phthalate	ND	0.11	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Chrysene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Di-n-butyl phthalate	ND	0.11	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Di-n-octyl phthalate	ND	0.11	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Dibenz[a,h]anthracene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Dibenzofuran	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Diethyl phthalate	ND	0.11	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Dimethyl phthalate	ND	0.11	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Fluoranthene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Fluorene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Hexachlorobenzene	ND	0.011	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Hexachlorobutadiene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Hexachlorocyclopentadiene	ND	0.066	0.365		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Hexachloroethane	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Isophorone	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
N-Nitrosodi-n-propylamine	ND	0.055	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Naphthalene	ND	0.044	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Nitrobenzene	ND	0.077	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Pentachlorophenol	ND	0.10	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Phenanthrene	ND	0.033	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Phenol	ND	0.066	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Pyrene	ND	0.022	0.147		mg/Kg-dry	1	5/24/2005 3:53:00 PM
Surr: 2,4,6-Tribromophenol	92.3	0	60-153		%REC	1	5/24/2005 3:53:00 PM
Surr: 2-Fluorobiphenyl	96.5	0	70-135		%REC	1	5/24/2005 3:53:00 PM
Surr: 2-Fluorophenol	88.1	0	37-125		%REC	1	5/24/2005 3:53:00 PM
Surr: 4-Terphenyl-d14	93.3	0	69-128		%REC	1	5/24/2005 3:53:00 PM
Surr: Nitrobenzene-d5	98.5	0	45-125		%REC	1	5/24/2005 3:53:00 PM
Surr: Phenol-d6	88.6	0	40-125		%REC	1	5/24/2005 3:53:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	131	3.4	11.5		mg/Kg-dry	1	5/23/2005 12:14:27 PM
TPH-ORO >C28-C35	54.0	3.4	11.5		mg/Kg-dry	1	5/23/2005 12:14:27 PM
Surr: o-Terphenyl	77.0	0	47-142		%REC	1	5/23/2005 12:14:27 PM
Surr: Octacosane	71.7	0	25-162		%REC	1	5/23/2005 12:14:27 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.36	0.51	1.03		mg/Kg-dry	5	5/24/2005 7:31:00 PM
Lead	57.5	0.10	0.309		mg/Kg-dry	5	5/24/2005 7:31:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-24
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-14
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:35:00 PM
Lab Order:	*0505125*	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	14.7	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-25
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-15
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
1,2-Dichlorobenzene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
1,3-Dichlorobenzene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
1,4-Dichlorobenzene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4,5-Trichlorophenol	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4,6-Trichlorophenol	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4-Dichlorophenol	ND	0.071	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4-Dimethylphenol	ND	0.095	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4-Dinitrophenol	ND	0.071	0.784		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,4-Dinitrotoluene	ND	0.071	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2,6-Dinitrotoluene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Chloronaphthalene	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Chlorophenol	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Methylnaphthalene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Methylphenol	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Nitroaniline	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
2-Nitrophenol	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
3,3'-Dichlorobenzidine	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
3-Nitroaniline	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4,6-Dinitro-2-methylphenol	ND	0.095	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Bromophenyl phenyl ether	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Chloro-3-methylphenol	ND	0.071	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Chloroaniline	ND	0.059	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Chlorophenyl phenyl ether	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Methylphenol	ND	0.12	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Nitroaniline	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
4-Nitrophenol	ND	0.17	0.784		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Acenaphthene	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Acenaphthylene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Aniline	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Anthracene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzo[a]anthracene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzo[a]pyrene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzo[b]fluoranthene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzo[g,h,i]perylene	ND	0.071	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzo[k]fluoranthene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Benzyl alcohol	ND	0.048	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Bis(2-chloroethoxy)methane	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Bis(2-chloroethyl)ether	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Bis(2-chloroisopropyl)ether	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-25
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-15
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Butyl benzyl phthalate	ND	0.12	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Chrysene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Di-n-butyl phthalate	ND	0.12	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Di-n-octyl phthalate	ND	0.12	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Dibenz[a,h]anthracene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Dibenzofuran	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Diethyl phthalate	ND	0.12	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Dimethyl phthalate	ND	0.12	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Fluoranthene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Fluorene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Hexachlorobenzene	ND	0.012	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Hexachlorobutadiene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Hexachlorocyclopentadiene	ND	0.071	0.392		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Hexachloroethane	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Isophorone	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
N-Nitrosodi-n-propylamine	ND	0.059	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
N-Nitrosodiphenylamine	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Naphthalene	ND	0.048	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Nitrobenzene	ND	0.083	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Pentachlorophenol	ND	0.11	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Phenanthrene	ND	0.036	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Phenol	ND	0.071	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Pyrene	ND	0.024	0.158		mg/Kg-dry	1	5/24/2005 4:33:00 PM
Surr: 2,4,6-Tribromophenol	94.5	0	60-153		%REC	1	5/24/2005 4:33:00 PM
Surr: 2-Fluorobiphenyl	99.8	0	70-135		%REC	1	5/24/2005 4:33:00 PM
Surr: 2-Fluorophenol	88.3	0	37-125		%REC	1	5/24/2005 4:33:00 PM
Surr: 4-Terphenyl-d14	97.5	0	69-128		%REC	1	5/24/2005 4:33:00 PM
Surr: Nitrobenzene-d5	100	0	45-125		%REC	1	5/24/2005 4:33:00 PM
Surr: Phenol-d6	83.8	0	40-125		%REC	1	5/24/2005 4:33:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	5.6	3.5	11.5	J	mg/Kg-dry	1	5/23/2005 12:39:59 PM
TPH-ORO >C28-C35	ND	3.5	11.5		mg/Kg-dry	1	5/23/2005 12:39:59 PM
Surr: o-Terphenyl	85.0	0	47-142		%REC	1	5/23/2005 12:39:59 PM
Surr: Octacosane	76.7	0	25-162		%REC	1	5/23/2005 12:39:59 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.09	0.56	1.12		mg/Kg-dry	5	5/24/2005 7:35:00 PM
Lead	5.77	0.11	0.335		mg/Kg-dry	5	5/24/2005 7:35:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-25
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-15
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	16.4	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-26
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-16
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:45:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
1,2-Dichlorobenzene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
1,3-Dichlorobenzene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
1,4-Dichlorobenzene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4,5-Trichlorophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4,6-Trichlorophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4-Dichlorophenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4-Dimethylphenol	ND	0.084	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4-Dinitrophenol	ND	0.063	0.693		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,4-Dinitrotoluene	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2,6-Dinitrotoluene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Chloronaphthalene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Chlorophenol	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Methylnaphthalene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Methylphenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Nitroaniline	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
2-Nitrophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
3,3'-Dichlorobenzidine	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
3-Nitroaniline	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4,6-Dinitro-2-methylphenol	ND	0.084	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Bromophenyl phenyl ether	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Chloro-3-methylphenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Chloroaniline	ND	0.053	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Chlorophenyl phenyl ether	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Methylphenol	ND	0.11	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Nitroaniline	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
4-Nitrophenol	ND	0.15	0.693		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Acenaphthene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Acenaphthylene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Aniline	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Anthracene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzo[a]anthracene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzo[a]pyrene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzo[b]fluoranthene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzo[g,h,i]perylene	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzo[k]fluoranthene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Benzyl alcohol	ND	0.042	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Bis(2-chloroethoxy)methane	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Bis(2-chloroethyl)ether	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Bis(2-chloroisopropyl)ether	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-26
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-16
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:45:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Butyl benzyl phthalate	ND	0.11	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Chrysene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Di-n-butyl phthalate	ND	0.11	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Di-n-octyl phthalate	ND	0.11	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Dibenz[a,h]anthracene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Dibenzofuran	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Diethyl phthalate	ND	0.11	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Dimethyl phthalate	ND	0.11	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Fluoranthene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Fluorene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Hexachlorobenzene	ND	0.011	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Hexachlorobutadiene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Hexachlorocyclopentadiene	ND	0.063	0.347		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Hexachloroethane	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Isophorone	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
N-Nitrosodi-n-propylamine	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
N-Nitrosodiphenylamine	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Naphthalene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Nitrobenzene	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Pentachlorophenol	ND	0.095	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Phenanthrene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Phenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Pyrene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 5:13:00 PM
Surr: 2,4,6-Tribromophenol	94.5	0	60-153		%REC	1	5/24/2005 5:13:00 PM
Surr: 2-Fluorobiphenyl	101	0	70-135		%REC	1	5/24/2005 5:13:00 PM
Surr: 2-Fluorophenol	91.3	0	37-125		%REC	1	5/24/2005 5:13:00 PM
Surr: 4-Terphenyl-d14	97.0	0	69-128		%REC	1	5/24/2005 5:13:00 PM
Surr: Nitrobenzene-d5	102	0	45-125		%REC	1	5/24/2005 5:13:00 PM
Surr: Phenol-d6	86.1	0	40-125		%REC	1	5/24/2005 5:13:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	4.5	3.2	10.6	J	mg/Kg-dry	1	5/23/2005 1:05:32 PM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	5/23/2005 1:05:32 PM
Surr: o-Terphenyl	84.1	0	47-142		%REC	1	5/23/2005 1:05:32 PM
Surr: Octacosane	77.9	0	25-162		%REC	1	5/23/2005 1:05:32 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.17	0.48	0.954		mg/Kg-dry	5	5/24/2005 7:39:00 PM
Lead	5.56	0.095	0.286		mg/Kg-dry	5	5/24/2005 7:39:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-26
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-16
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:45:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.63	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-27
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-17
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:50:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
1,2-Dichlorobenzene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
1,3-Dichlorobenzene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
1,4-Dichlorobenzene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4,5-Trichlorophenol	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4,6-Trichlorophenol	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4-Dichlorophenol	ND	0.069	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4-Dimethylphenol	ND	0.092	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4-Dinitrophenol	ND	0.069	0.755		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,4-Dinitrotoluene	ND	0.069	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2,6-Dinitrotoluene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Chloronaphthalene	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Chlorophenol	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Methylnaphthalene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Methylphenol	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Nitroaniline	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
2-Nitrophenol	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
3,3'-Dichlorobenzidine	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
3-Nitroaniline	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4,6-Dinitro-2-methylphenol	ND	0.092	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Bromophenyl phenyl ether	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Chloro-3-methylphenol	ND	0.069	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Chloroaniline	ND	0.057	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Chlorophenyl phenyl ether	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Methylphenol	ND	0.11	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Nitroaniline	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
4-Nitrophenol	ND	0.16	0.755		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Acenaphthene	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Acenaphthylene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Aniline	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Anthracene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzo[a]anthracene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzo[a]pyrene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzo[b]fluoranthene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzo[g,h,i]perylene	ND	0.069	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzo[k]fluoranthene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Benzyl alcohol	ND	0.046	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Bis(2-chloroethoxy)methane	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Bis(2-chloroethyl)ether	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Bis(2-chloroisopropyl)ether	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-27
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-17
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:50:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Butyl benzyl phthalate	ND	0.11	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Chrysene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Di-n-butyl phthalate	ND	0.11	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Di-n-octyl phthalate	ND	0.11	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Dibenz[a,h]anthracene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Dibenzofuran	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Diethyl phthalate	ND	0.11	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Dimethyl phthalate	ND	0.11	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Fluoranthene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Fluorene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Hexachlorobenzene	ND	0.011	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Hexachlorobutadiene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Hexachlorocyclopentadiene	ND	0.069	0.377		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Hexachloroethane	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Isophorone	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
N-Nitrosodi-n-propylamine	ND	0.057	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
N-Nitrosodiphenylamine	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Naphthalene	ND	0.046	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Nitrobenzene	ND	0.080	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Pentachlorophenol	ND	0.10	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Phenanthrene	ND	0.034	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Phenol	ND	0.069	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Pyrene	ND	0.023	0.152		mg/Kg-dry	1	5/24/2005 5:53:00 PM
Surr: 2,4,6-Tribromophenol	107	0	60-153		%REC	1	5/24/2005 5:53:00 PM
Surr: 2-Fluorobiphenyl	113	0	70-135		%REC	1	5/24/2005 5:53:00 PM
Surr: 2-Fluorophenol	102	0	37-125		%REC	1	5/24/2005 5:53:00 PM
Surr: 4-Terphenyl-d14	110	0	69-128		%REC	1	5/24/2005 5:53:00 PM
Surr: Nitrobenzene-d5	113	0	45-125		%REC	1	5/24/2005 5:53:00 PM
Surr: Phenol-d6	96.8	0	40-125		%REC	1	5/24/2005 5:53:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.5	11.8		mg/Kg-dry	1	5/23/2005 5:24:44 PM
TPH-ORO >C28-C35	ND	3.5	11.8		mg/Kg-dry	1	5/23/2005 5:24:44 PM
Surr: o-Terphenyl	87.7	0	47-142		%REC	1	5/23/2005 5:24:44 PM
Surr: Octacosane	101	0	25-162		%REC	1	5/23/2005 5:24:44 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.55	0.53	1.06		mg/Kg-dry	5	5/23/2005 2:46:00 PM
Lead	36.6	0.11	0.317		mg/Kg-dry	5	5/23/2005 2:46:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-27
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-17
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:50:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	17.0	0			WT%	1	5/19/2005 5:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-28
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-18
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:55:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
1,2-Dichlorobenzene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
1,3-Dichlorobenzene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
1,4-Dichlorobenzene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4,5-Trichlorophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4,6-Trichlorophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4-Dichlorophenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4-Dimethylphenol	ND	0.084	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4-Dinitrophenol	ND	0.063	0.695		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,4-Dinitrotoluene	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2,6-Dinitrotoluene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Chloronaphthalene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Chlorophenol	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Methylnaphthalene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Methylphenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Nitroaniline	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
2-Nitrophenol	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
3,3'-Dichlorobenzidine	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
3-Nitroaniline	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4,6-Dinitro-2-methylphenol	ND	0.084	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Bromophenyl phenyl ether	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Chloro-3-methylphenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Chloroaniline	ND	0.053	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Chlorophenyl phenyl ether	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Methylphenol	ND	0.11	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Nitroaniline	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
4-Nitrophenol	ND	0.15	0.695		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Acenaphthene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Acenaphthylene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Aniline	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Anthracene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzo[a]anthracene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzo[a]pyrene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzo[b]fluoranthene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzo[g,h,i]perylene	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzo[k]fluoranthene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Benzyl alcohol	ND	0.042	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Bis(2-chloroethoxy)methane	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Bis(2-chloroethyl)ether	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Bis(2-chloroisopropyl)ether	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-28
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-18
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:55:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Butyl benzyl phthalate	ND	0.11	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Chrysene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Di-n-butyl phthalate	ND	0.11	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Di-n-octyl phthalate	ND	0.11	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Dibenz[a,h]anthracene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Dibenzofuran	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Diethyl phthalate	ND	0.11	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Dimethyl phthalate	ND	0.11	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Fluoranthene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Fluorene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Hexachlorobenzene	ND	0.011	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Hexachlorobutadiene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Hexachlorocyclopentadiene	ND	0.063	0.348		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Hexachloroethane	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Isophorone	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
N-Nitrosodi-n-propylamine	ND	0.053	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
N-Nitrosodiphenylamine	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Naphthalene	ND	0.042	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Nitrobenzene	ND	0.074	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Pentachlorophenol	ND	0.095	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Phenanthrene	ND	0.032	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Phenol	ND	0.063	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Pyrene	ND	0.021	0.140		mg/Kg-dry	1	5/24/2005 6:32:00 PM
Surr: 2,4,6-Tribromophenol	91.3	0	60-153		%REC	1	5/24/2005 6:32:00 PM
Surr: 2-Fluorobiphenyl	92.3	0	70-135		%REC	1	5/24/2005 6:32:00 PM
Surr: 2-Fluorophenol	86.8	0	37-125		%REC	1	5/24/2005 6:32:00 PM
Surr: 4-Terphenyl-d14	93.5	0	69-128		%REC	1	5/24/2005 6:32:00 PM
Surr: Nitrobenzene-d5	96.3	0	45-125		%REC	1	5/24/2005 6:32:00 PM
Surr: Phenol-d6	84.3	0	40-125		%REC	1	5/24/2005 6:32:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.2	10.9		mg/Kg-dry	1	5/23/2005 5:50:39 PM
TPH-ORO >C28-C35	ND	3.2	10.9		mg/Kg-dry	1	5/23/2005 5:50:39 PM
Surr: o-Terphenyl	83.2	0	47-142		%REC	1	5/23/2005 5:50:39 PM
Surr: Octacosane	97.5	0	25-162		%REC	1	5/23/2005 5:50:39 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.89	0.54	1.08		mg/Kg-dry	5	5/24/2005 8:35:00 PM
Lead	5.55	0.11	0.323		mg/Kg-dry	5	5/24/2005 8:35:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-28
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-18
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 2:55:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.90	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-29
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-19
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:00:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.65	0.58	1.17		mg/Kg-dry	5	5/24/2005 8:43:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	15.1	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-30
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-20
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:05:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.18	0.52	1.04		mg/Kg-dry	5	5/24/2005 8:47:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	18.8	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-31
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-21
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:10:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.95	0.47	0.948		mg/Kg-dry	5	5/24/2005 9:31:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.6	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-32
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-22
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:15:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.30	0.46	0.928		mg/Kg-dry	5	5/24/2005 9:36:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	7.93	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-33
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-23
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:20:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	5.80	0.48	0.956		mg/Kg-dry	5	5/24/2005 9:40:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	9.82	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-34
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-24
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:25:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.91	0.51	1.02		mg/Kg-dry	5	5/24/2005 9:44:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	8.99	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-35
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-25
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:30:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	30.3	3.3	10.9		mg/Kg-dry	1	5/23/2005 6:16:30 PM
TPH-ORO >C28-C35	12.5	3.3	10.9		mg/Kg-dry	1	5/23/2005 6:16:30 PM
Surr: o-Terphenyl	92.7	0	47-142		%REC	1	5/23/2005 6:16:30 PM
Surr: Octacosane	110	0	25-162		%REC	1	5/23/2005 6:16:30 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.36	0.55	1.09		mg/Kg-dry	5	5/24/2005 9:48:00 PM
Chromium	12.5	0.55	2.18		mg/Kg-dry	5	5/24/2005 9:48:00 PM
Lead	17.7	0.11	0.328		mg/Kg-dry	5	5/24/2005 9:48:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	11.1	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-36
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-26
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:35:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.3	10.8		mg/Kg-dry	1	5/23/2005 6:42:17 PM
TPH-ORO >C28-C35	ND	3.3	10.8		mg/Kg-dry	1	5/23/2005 6:42:17 PM
Surr: o-Terphenyl	75.9	0	47-142		%REC	1	5/23/2005 6:42:17 PM
Surr: Octacosane	89.5	0	25-162		%REC	1	5/23/2005 6:42:17 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.55	0.50	0.995		mg/Kg-dry	5	5/24/2005 9:52:00 PM
Chromium	9.85	0.50	1.99		mg/Kg-dry	5	5/24/2005 9:52:00 PM
Lead	5.59	0.10	0.299		mg/Kg-dry	5	5/24/2005 9:52:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	11.1	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-37
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-27
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
1,2,4-Trichlorobenzene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
1,2-Dichlorobenzene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
1,3-Dichlorobenzene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
1,4-Dichlorobenzene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4,5-Trichlorophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4,6-Trichlorophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4-Dichlorophenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4-Dimethylphenol	ND	0.088	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4-Dinitrophenol	ND	0.066	0.726		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,4-Dinitrotoluene	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2,6-Dinitrotoluene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Chloronaphthalene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Chlorophenol	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Methylnaphthalene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Methylphenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Nitroaniline	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
2-Nitrophenol	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
3,3'-Dichlorobenzidine	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
3-Nitroaniline	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4,6-Dinitro-2-methylphenol	ND	0.088	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Bromophenyl phenyl ether	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Chloro-3-methylphenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Chloroaniline	ND	0.055	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Chlorophenyl phenyl ether	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Methylphenol	ND	0.11	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Nitroaniline	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
4-Nitrophenol	ND	0.15	0.726		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Acenaphthene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Acenaphthylene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Aniline	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Anthracene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzo[a]anthracene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzo[a]pyrene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzo[b]fluoranthene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzo[g,h,i]perylene	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzo[k]fluoranthene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Benzyl alcohol	ND	0.044	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Bis(2-chloroethoxy)methane	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Bis(2-chloroethyl)ether	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Bis(2-chloroisopropyl)ether	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-37
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-27
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
SEMIVOLATILES BY GC/MS		**SW8270C**				Analyst: **RPC**	
Bis(2-ethylhexyl)phthalate	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Butyl benzyl phthalate	ND	0.11	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Chrysene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Di-n-butyl phthalate	ND	0.11	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Di-n-octyl phthalate	ND	0.11	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Dibenz[a,h]anthracene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Dibenzofuran	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Diethyl phthalate	ND	0.11	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Dimethyl phthalate	ND	0.11	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Fluoranthene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Fluorene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Hexachlorobenzene	ND	0.011	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Hexachlorobutadiene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Hexachlorocyclopentadiene	ND	0.066	0.363		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Hexachloroethane	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Indeno[1,2,3-cd]pyrene	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Isophorone	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
N-Nitrosodi-n-propylamine	ND	0.055	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
N-Nitrosodiphenylamine	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Naphthalene	ND	0.044	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Nitrobenzene	ND	0.077	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Pentachlorophenol	ND	0.099	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Phenanthrene	ND	0.033	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Phenol	ND	0.066	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Pyrene	ND	0.022	0.146		mg/Kg-dry	1	5/24/2005 7:12:00 PM
Surr: 2,4,6-Tribromophenol	77.1	0	60-153		%REC	1	5/24/2005 7:12:00 PM
Surr: 2-Fluorobiphenyl	83.1	0	70-135		%REC	1	5/24/2005 7:12:00 PM
Surr: 2-Fluorophenol	77.9	0	37-125		%REC	1	5/24/2005 7:12:00 PM
Surr: 4-Terphenyl-d14	82.6	0	69-128		%REC	1	5/24/2005 7:12:00 PM
Surr: Nitrobenzene-d5	86.3	0	45-125		%REC	1	5/24/2005 7:12:00 PM
Surr: Phenol-d6	76.1	0	40-125		%REC	1	5/24/2005 7:12:00 PM
GC/FID - SOIL DRO+ORO		**M8015D**				Analyst: **RPC**	
TPH-DRO C10-C28	ND	3.1	10.5		mg/Kg-dry	1	5/23/2005 7:07:53 PM
TPH-ORO >C28-C35	ND	3.1	10.5		mg/Kg-dry	1	5/23/2005 7:07:53 PM
Surr: o-Terphenyl	65.2	0	47-142		%REC	1	5/23/2005 7:07:53 PM
Surr: Octacosane	77.0	0	25-162		%REC	1	5/23/2005 7:07:53 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.33	0.50	0.993		mg/Kg-dry	5	5/24/2005 9:56:00 PM
Lead	5.01	0.099	0.298		mg/Kg-dry	5	5/24/2005 9:56:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-37
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-27
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 3:40:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.9	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-38
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0505125-28
Project No:	Drilco Hobbs 110403	**Collection Date:**	3/17/2005 3:45:00 PM
Lab Order:	0505125	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.95	0.55	1.11		mg/Kg-dry	5	5/24/2005 10:00:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	12.5	0			WT%	1	5/23/2005 3:30:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *27-May-05*

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050523A

Sample ID **MB-19167**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 10:32:55 AM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	12.74	0	15	0	84.9	47	142	0		
Surr: Octacosane	14.36	0	15	0	95.7	25	162	0		

Sample ID **LCS-19167**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 10:07:36 AM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	268.1	10	250	0	107	50	114	0		
Surr: o-Terphenyl	16.75	0	15	0	112	47	142	0		
Surr: Octacosane	17.12	0	15	0	114	25	162	0		

Sample ID **CCV1-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 4:30:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	576.7	10	500	0	115	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.74	0	20	0	93.7	47	142	0		
Surr: Octacosane	17.33	0	20	0	86.7	25	162	0		

Sample ID **CCV2-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 7:33:17 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	535.8	10	500	0	107	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.99	0	20	0	90	47	142	0		
Surr: Octacosane	17.78	0	20	0	88.9	25	162	0		

Sample ID **ICV-050523**	Batch ID: **R22129**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050523A**	Analysis Date: **5/23/2005 9:42:39 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	996.1	10	1000	0	99.6	85	115	0		
TPH-ORO >C28-C35	0.4559	10	0	0	0	0	0	0		
Surr: o-Terphenyl	19.03	0	25	0	76.1	47	142	0		
Surr: Octacosane	14.94	0	25	0	59.8	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050523B

Sample ID **0505120-02C MS**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GC15_050523B**	Analysis Date: **5/23/2005 6:42:17 PM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	648.9	10.8	270.1	415.6	86.4	50	114	0		
Surr: o-Terphenyl	13.32	0	16.21	0	82.2	47	142	0		
Surr: Octacosane	15.51	0	16.21	0	95.7	25	162	0		

Sample ID **0505120-02C MSD**	Batch ID: **19167**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GC15_050523B**	Analysis Date: **5/23/2005 7:07:53 PM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	713.9	10.8	270.1	415.6	110	50	114	9.53	30	
Surr: o-Terphenyl	13.53	0	16.21	0	83.5	47	142	0	0	
Surr: Octacosane	16.36	0	16.21	0	101	25	162	0	0	

Sample ID **CCV1-050523**	Batch ID: **R22132**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050523B**	Analysis Date: **5/23/2005 4:30:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	558.6	10	500	0	112	85	115	0		
TPH-ORO >C28-C35	0.07566	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.81	0	20	0	89.1	47	142	0		
Surr: Octacosane	14.38	0	20	0	71.9	25	162	0		

Sample ID **CCV2-050523**	Batch ID: **R22132**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050523B**	Analysis Date: **5/23/2005 7:33:17 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	559.9	10	500	0	112	85	115	0		
TPH-ORO >C28-C35	18.45	10	0	0	0	0	0	0		
Surr: o-Terphenyl	16.57	0	20	0	82.8	47	142	0		
Surr: Octacosane	15.25	0	20	0	76.3	25	162	0		

Sample ID **ICV-050523**	Batch ID: **R22132**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050523B**	Analysis Date: **5/23/2005 9:42:39 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	920.9	10	1000	0	92.1	85	115	0		
TPH-ORO >C28-C35	0.5341	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.01	0	25	0	72	47	142	0		
Surr: Octacosane	3.658	0	25	0	14.6	25	162	0		S

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050524A

Sample ID **MB-19206** Batch ID: **19206** TestNo: **M8015D** Units: **mg/Kg**
SampType **MBLK** Run ID: **GC15_050524A** Analysis Date: **5/24/2005 1:19:03 PM** Prep Date: **5/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	13.62	0	15	0	90.8	47	142	0		
Surr: Octacosane	16.1	0	15	0	107	25	162	0		

Sample ID **LCS-19206** Batch ID: **19206** TestNo: **M8015D** Units: **mg/Kg**
SampType **LCS** Run ID: **GC15_050524A** Analysis Date: **5/24/2005 12:53:51 PM** Prep Date: **5/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	264.7	10	250	0	106	50	114	0		
Surr: o-Terphenyl	16.31	0	15	0	109	47	142	0		
Surr: Octacosane	17.31	0	15	0	115	25	162	0		

Sample ID **0505125-06B MS** Batch ID: **19206** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType **MS** Run ID: **GC15_050524A** Analysis Date: **5/24/2005 5:09:42 PM** Prep Date: **5/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	256.5	10.9	273.6	0	93.8	50	114	0		
Surr: o-Terphenyl	17.02	0	16.42	0	104	47	142	0		
Surr: Octacosane	17.43	0	16.42	0	106	25	162	0		

Sample ID **0505125-06B MSD** Batch ID: **19206** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType **MSD** Run ID: **GC15_050524A** Analysis Date: **5/24/2005 5:35:21 PM** Prep Date: **5/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	259.8	10.9	273.6	0	94.9	50	114	1.25	30	
Surr: o-Terphenyl	15.79	0	16.42	0	96.2	47	142	0	0	
Surr: Octacosane	16.9	0	16.42	0	103	25	162	0	0	

Sample ID **CCV1-050524** Batch ID: **R22138** TestNo: **M8015D** Units: **mg/Kg**
SampType **CCV** Run ID: **GC15_050524A** Analysis Date: **5/24/2005 3:52:42 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	533.2	10	500	0	107	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.47	0	20	0	87.3	47	142	0		
Surr: Octacosane	16.6	0	20	0	83	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050524A

Sample ID **CCV2-050524**	Batch ID: **R22138**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050524A**	Analysis Date: **5/24/2005 6:00:57 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	534	10	500	0	107	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.99	0	20	0	90	47	142	0		
Surr: Octacosane	17.04	0	20	0	85.2	25	162	0		

Sample ID **ICV-050524**	Batch ID: **R22138**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050524A**	Analysis Date: **5/24/2005 12:28:50 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	959.4	10	1000	0	95.9	85	115	0		
TPH-ORO >C28-C35	0.1439	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.93	0	25	0	71.7	47	142	0		
Surr: Octacosane	14.67	0	25	0	58.7	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050523A

Sample ID MB-19162	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg
SampType MBLK	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 2:42:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								
Chromium	ND	2								
Lead	ND	0.3								

Sample ID LCS-19162	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg
SampType LCS	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 3:02:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.18	1	50	0	90.4	80	120	0		
Chromium	47.6	2	50	0	95.2	80	120	0		
Lead	48.9	0.3	50	0	97.8	80	120	0		

Sample ID LCSD-19162	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg
SampType LCSD	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 3:06:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.7	1	50	0	93.4	80	120	3.32	25	
Chromium	49.1	2	50	0	98.2	80	120	3.10	25	
Lead	50.3	0.3	50	0	101	80	120	2.82	25	

Sample ID 0505125-17A MS	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg-dry
SampType MS	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 3:10:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.86	1.05	52.38	3.546	90.3	80	120	0		
Chromium	59.85	2.1	52.38	11.91	91.5	80	120	0		
Lead	91.15	0.314	52.38	36.65	104	80	120	0		

Sample ID 0505125-17A MSD	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg-dry
SampType MSD	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 3:14:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.28	1.09	54.27	3.546	95.3	80	120	8.31	25	
Chromium	64.75	2.17	54.27	11.91	97.4	80	120	7.86	25	
Lead	92.32	0.326	54.27	36.65	103	80	120	1.27	25	

Sample ID 0505125-17A PDS	Batch ID: 19162	TestNo: SW6020	Units: mg/Kg-dry
SampType PDS	Run ID: ICP-MS_050523A	Analysis Date: 5/23/2005 3:19:00 PM	Prep Date: 5/20/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.34	1.06	52.84	3.546	92.3	75	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050523A

Sample ID **0505125-17A PDS**	Batch ID: **19162**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 3:19:00 PM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium	59.79	2.11	52.84	11.91	90.6	75	125	0		
Lead	90.39	0.317	52.84	36.65	102	75	125	0		

Sample ID **0505125-17A SD**	Batch ID: **19162**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **SD**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 2:50:00 PM**	Prep Date: **5/20/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.28	0	3.546	0	0	0	0	10	
Chromium	11.35	10.6	0	11.91	0	0	0	4.86	10	
Lead	37.14	1.59	0	36.65	0	0	0	1.32	10	

Sample ID **CCV2-050523**	Batch ID: **R22119**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 1:09:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	195.3	6	200	0	97.6	90	110	0		
Chromium	195.4	6	200	0	97.7	90	110	0		
Lead	198.7	1	200	0	99.4	90	110	0		

Sample ID **CCV3-050523**	Batch ID: **R22119**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 2:02:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	193.9	6	200	0	97	90	110	0		
Chromium	193.7	6	200	0	96.8	90	110	0		
Lead	199.9	1	200	0	100	90	110	0		

Sample ID **CCV4-050523**	Batch ID: **R22119**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 3:23:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	199.6	6	200	0	99.8	90	110	0		
Chromium	199.5	6	200	0	99.8	90	110	0		
Lead	205.2	1	200	0	103	90	110	0		

Sample ID **ICV1-050523**	Batch ID: **R22119**	TestNo: **SW6020**	Units: **µg/L**
SampType **ICV**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 11:20:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	102.3	6	100	0	102	90	110	0		
Chromium	100.2	6	100	0	100	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050523A

Sample ID **ICV1-050523**	Batch ID: **R22119**	TestNo: **SW6020**	Units: **µg/L**
SampType **ICV**	Run ID: **ICP-MS_050523A**	Analysis Date: **5/23/2005 11:20:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Lead	102.2	1	100	0	102	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050524A

Sample ID **MB-19183**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 8:31:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								
Chromium	ND	2								
Lead	ND	0.3								

Sample ID **LCS-19183**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCS**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 8:51:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.72	1	50	0	89.4	80	120	0		
Chromium	47.5	2	50	0	95	80	120	0		
Lead	47.78	0.3	50	0	95.6	80	120	0		

Sample ID **LCSD-19183**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 8:55:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	43.82	1	50	0	87.6	80	120	2.03	25	
Chromium	46.55	2	50	0	93.1	80	120	2.02	25	
Lead	46.68	0.3	50	0	93.4	80	120	2.33	25	

Sample ID **0505125-18A MS**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 8:59:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	49.51	1.08	53.88	1.89	88.4	80	120	0		
Chromium	57.65	2.16	53.88	9.42	89.5	80	120	0		
Lead	56.92	0.323	53.88	5.549	95.4	80	120	0		

Sample ID **0505125-18A MSD**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 9:03:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.64	0.991	49.55	1.89	86.3	80	120	10.3	25	
Chromium	53.04	1.98	49.55	9.42	88	80	120	8.33	25	
Lead	52.42	0.297	49.55	5.549	94.6	80	120	8.23	25	

Sample ID **0505125-18A PDS**	Batch ID: **19183**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 9:07:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.35	1.08	53.88	1.89	89.9	75	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050524A

Sample ID **0505125-18A PDS** Batch ID: **19183** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType **PDS** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 9:07:00 PM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium	58.27	2.16	53.88	9.42	90.7	75	125	0		
Lead	57.76	0.323	53.88	5.549	96.9	75	125	0		

Sample ID **0505125-18A SD** Batch ID: **19183** TestNo: **SW6020** Units: **mg/Kg-dry**
SampType **SD** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 8:39:00 PM** Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.39	0	1.89	0	0	0	0	10	
Chromium	8.777	2.69	0	9.42	0	0	0	7.08	10	
Lead	5.431	1.62	0	5.549	0	0	0	2.16	10	

Sample ID **CCV2-050524** Batch ID: **R22147** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 6:50:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191.6	6	200	0	95.8	90	110	0		
Chromium	190.3	6	200	0	95.2	90	110	0		
Lead	192.8	1	200	0	96.4	90	110	0		

Sample ID **CCV3-050524** Batch ID: **R22147** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 7:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191.4	6	200	0	95.7	90	110	0		
Chromium	189.6	6	200	0	94.8	90	110	0		
Lead	191.6	1	200	0	95.8	90	110	0		

Sample ID **CCV4-050524** Batch ID: **R22147** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 9:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	187.7	6	200	0	93.8	90	110	0		
Chromium	181	6	200	0	90.5	90	110	0		
Lead	186.9	1	200	0	93.4	90	110	0		

Sample ID **CCV5-050524** Batch ID: **R22147** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS_050524A** Analysis Date: **5/24/2005 10:16:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	192	6	200	0	96	90	110	0		
Chromium	188.4	6	200	0	94.2	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050524A

Sample ID **CCV5-050524**	Batch ID: **R22147**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 10:16:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Lead	192.6	1	200	0	96.3	90	110	0		

Sample ID **ICV1-050524**	Batch ID: **R22147**	TestNo: **SW6020**	Units: **µg/L**
SampType **ICV**	Run ID: **ICP-MS_050524A**	Analysis Date: **5/24/2005 4:54:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Arsenic	99.97	6	100	0	100	90	110	0		
Chromium	98.71	6	100	0	98.7	90	110	0		
Lead	100.6	1	100	0	101	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050523A

Sample ID	CCV6-050523	Batch ID:	R22123	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS2_050523A	Analysis Date:	5/23/2005 9:29:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	180.9	6	200	0	90.4	90	110	0		
Chromium	188	6	200	0	94	90	110	0		
Lead	192	1	200	0	96	90	110	0		

Sample ID	CCV7-050523	Batch ID:	R22123	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS2_050523A	Analysis Date:	5/23/2005 10:27:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	180.1	6	200	0	90	90	110	0		
Chromium	193.5	6	200	0	96.8	90	110	0		
Lead	193.6	1	200	0	96.8	90	110	0		

Sample ID	ICV2-050523	Batch ID:	R22123	TestNo:	SW6020	Units:	µg/L
SampType	ICV	Run ID:	ICP-MS2_050523A	Analysis Date:	5/23/2005 6:53:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	94.24	6	100	0	94.2	90	110	0		
Chromium	93.69	6	100	0	93.7	90	110	0		
Lead	97.83	1	100	0	97.8	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **MB-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 12:35:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	ND	0.133								
1,2-Dichlorobenzene	ND	0.133								
1,3-Dichlorobenzene	ND	0.133								
1,4-Dichlorobenzene	ND	0.133								
2,4,5-Trichlorophenol	ND	0.133								
2,4,6-Trichlorophenol	ND	0.133								
2,4-Dichlorophenol	ND	0.133								
2,4-Dimethylphenol	ND	0.133								
2,4-Dinitrophenol	ND	0.66								
2,4-Dinitrotoluene	ND	0.133								
2,6-Dinitrotoluene	ND	0.133								
2-Chloronaphthalene	ND	0.133								
2-Chlorophenol	ND	0.133								
2-Methylnaphthalene	ND	0.133								
2-Methylphenol	ND	0.133								
2-Nitroaniline	ND	0.133								
2-Nitrophenol	ND	0.133								
3,3'-Dichlorobenzidine	ND	0.133								
3-Nitroaniline	ND	0.133								
4,6-Dinitro-2-methylphenol	ND	0.33								
4-Bromophenyl phenyl ether	ND	0.133								
4-Chloro-3-methylphenol	ND	0.133								
4-Chloroaniline	ND	0.33								
4-Chlorophenyl phenyl ether	ND	0.133								
4-Methylphenol	ND	0.133								
4-Nitroaniline	ND	0.133								
4-Nitrophenol	ND	0.66								
Acenaphthene	ND	0.133								
Acenaphthylene	ND	0.133								
Aniline	ND	0.133								
Anthracene	ND	0.133								
Benzo[a]anthracene	ND	0.133								
Benzo[a]pyrene	ND	0.133								
Benzo[b]fluoranthene	ND	0.133								
Benzo[g,h,i]perylene	ND	0.133								
Benzo[k]fluoranthene	ND	0.133								
Benzyl alcohol	ND	0.33								
Bis(2-chloroethoxy)methane	ND	0.133								
Bis(2-chloroethyl)ether	ND	0.133								
Bis(2-chloroisopropyl)ether	ND	0.133								
Bis(2-ethylhexyl)phthalate	ND	0.133								
Butyl benzyl phthalate	ND	0.33								

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **MB-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 12:35:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chrysene	ND	0.133								
Di-n-butyl phthalate	ND	0.33								
Di-n-octyl phthalate	ND	0.33								
Dibenz[a,h]anthracene	ND	0.133								
Dibenzofuran	ND	0.133								
Diethyl phthalate	ND	0.33								
Dimethyl phthalate	ND	0.33								
Fluoranthene	ND	0.133								
Fluorene	ND	0.133								
Hexachlorobenzene	ND	0.133								
Hexachlorobutadiene	ND	0.133								
Hexachlorocyclopentadiene	ND	0.33								
Hexachloroethane	ND	0.133								
Indeno[1,2,3-cd]pyrene	ND	0.133								
Isophorone	ND	0.133								
N-Nitrosodi-n-propylamine	ND	0.133								
N-Nitrosodiphenylamine	ND	0.133								
Naphthalene	ND	0.133								
Nitrobenzene	ND	0.133								
Pentachlorophenol	ND	0.133								
Phenanthrene	ND	0.133								
Phenol	ND	0.133								
Pyrene	ND	0.133								
Surr: 2,4,6-Tribromophenol	2.78	0	2.68	0	104	60	153	0		
Surr: 2-Fluorobiphenyl	2.78	0	2.68	0	104	70	135	0		
Surr: 2-Fluorophenol	2.707	0	2.68	0	101	37	125	0		
Surr: 4-Terphenyl-d14	2.953	0	2.68	0	110	69	128	0		
Surr: Nitrobenzene-d5	2.973	0	2.68	0	111	45	125	0		
Surr: Phenol-d6	2.573	0	2.68	0	96	40	125	0		

Sample ID **LCS-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:55:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.093	0.133	1.34	0	81.6	34	152	0		
1,2-Dichlorobenzene	1.093	0.133	1.34	0	81.6	32	135	0		
1,3-Dichlorobenzene	1.087	0.133	1.34	0	81.1	26	135	0		
1,4-Dichlorobenzene	1.08	0.133	1.34	0	80.6	25	135	0		
2,4,5-Trichlorophenol	1	0.133	1.34	0	74.6	25	175	0		
2,4,6-Trichlorophenol	1.027	0.133	1.34	0	76.6	29	138	0		
2,4-Dichlorophenol	1.073	0.133	1.34	0	80.1	36	135	0		
2,4-Dimethylphenol	1.107	0.133	1.34	0	82.6	35	149	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **LCS-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:55:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
2,4-Dinitrophenol	0.9933	0.66	1.34	0	74.1	25	161	0		
2,4-Dinitrotoluene	1.173	0.133	1.34	0	87.6	29	149	0		
2,6-Dinitrotoluene	1.12	0.133	1.34	0	83.6	41	135	0		
2-Chloronaphthalene	1.133	0.133	1.34	0	84.6	50	135	0		
2-Chlorophenol	1.053	0.133	1.34	0	78.6	31	135	0		
2-Methylnaphthalene	1.147	0.133	1.34	0	85.6	31	135	0		
2-Methylphenol	1.04	0.133	1.34	0	77.6	25	135	0		
2-Nitroaniline	1.373	0.133	1.34	0	102	40	135	0		
2-Nitrophenol	1.067	0.133	1.34	0	79.6	34	135	0		
3,3'-Dichlorobenzidine	1.027	0.133	1.34	0	76.6	25	175	0		
3-Nitroaniline	0.9867	0.133	1.34	0	73.6	41	135	0		
4,6-Dinitro-2-methylphenol	1.027	0.33	1.34	0	76.6	25	144	0		
4-Bromophenyl phenyl ether	1.113	0.133	1.34	0	83.1	43	137	0		
4-Chloro-3-methylphenol	1.1	0.133	1.34	0	82.1	34	135	0		
4-Chloroaniline	0.98	0.33	1.34	0	73.1	35	146	0		
4-Chlorophenyl phenyl ether	0.9933	0.133	1.34	0	74.1	41	142	0		
4-Methylphenol	1.053	0.133	1.34	0	78.6	25	135	0		
4-Nitroaniline	1.067	0.133	1.34	0	79.6	30	153	0		
4-Nitrophenol	1.42	0.66	1.34	0	106	25	141	0		
Acenaphthene	1.127	0.133	1.34	0	84.1	39	135	0		
Acenaphthylene	1.66	0.133	1.34	0	124	37	135	0		
Aniline	0.7467	0.133	1.34	0	55.7	40	140	0		
Anthracene	1.173	0.133	1.34	0	87.6	35	140	0		
Benzo[a]anthracene	1.153	0.133	1.34	0	86.1	41	143	0		
Benzo[a]pyrene	1.26	0.133	1.34	0	94	31	135	0		
Benzo[b]fluoranthene	1.227	0.133	1.34	0	91.5	27	135	0		
Benzo[g,h,i]perylene	1.233	0.133	1.34	0	92	25	159	0		
Benzo[k]fluoranthene	1.22	0.133	1.34	0	91	25	159	0		
Benzyl alcohol	1.193	0.33	1.34	0	89.1	25	135	0		
Bis(2-chloroethoxy)methane	1.187	0.133	1.34	0	88.6	39	135	0		
Bis(2-chloroethyl)ether	1.207	0.133	1.34	0	90	34	135	0		
Bis(2-chloroisopropyl)ether	1.247	0.133	1.34	0	93	26	175	0		
Bis(2-ethylhexyl)phthalate	1.36	0.133	1.34	0	101	25	139	0		
Butyl benzyl phthalate	1.307	0.33	1.34	0	97.5	25	135	0		
Chrysene	1.133	0.133	1.34	0	84.6	45	143	0		
Di-n-butyl phthalate	1.32	0.33	1.34	0	98.5	25	136	0		
Di-n-octyl phthalate	1.44	0.33	1.34	0	107	28	137	0		
Dibenz[a,h]anthracene	1.213	0.133	1.34	0	90.5	40	135	0		
Dibenzofuran	1.093	0.133	1.34	0	81.6	42	135	0		
Diethyl phthalate	1.067	0.33	1.34	0	79.6	27	135	0		
Dimethyl phthalate	1.12	0.33	1.34	0	83.6	25	175	0		
Fluoranthene	1.28	0.133	1.34	0	95.5	37	135	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **LCS-19196**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:55:00 AM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Fluorene	1.02	0.133	1.34	0	76.1	38	149	0		
Hexachlorobenzene	1.087	0.133	1.34	0	81.1	36	143	0		
Hexachlorobutadiene	1.173	0.133	1.34	0	87.6	25	135	0		
Hexachlorocyclopentadiene	1.867	0.33	1.34	0	139	31	135	0		S
Hexachloroethane	1.167	0.133	1.34	0	87.1	25	163	0		
Indeno[1,2,3-cd]pyrene	1.193	0.133	1.34	0	89.1	25	170	0		
Isophorone	1.313	0.133	1.34	0	98	25	175	0		
N-Nitrosodi-n-propylamine	1.267	0.133	1.34	0	94.5	27	135	0		
N-Nitrosodiphenylamine	1.16	0.133	1.34	0	86.6	25	135	0		
Naphthalene	1.127	0.133	1.34	0	84.1	40	135	0		
Nitrobenzene	1.3	0.133	1.34	0	97	36	143	0		
Pentachlorophenol	0.9067	0.133	1.34	0	67.7	38	146	0		
Phenanthrene	1.18	0.133	1.34	0	88.1	44	135	0		
Phenol	1.113	0.133	1.34	0	83.1	25	135	0		
Pyrene	1.12	0.133	1.34	0	83.6	37	146	0		
Surr: 2,4,6-Tribromophenol	2.52	0	2.68	0	94	60	153	0		
Surr: 2-Fluorobiphenyl	2.533	0	2.68	0	94.5	70	135	0		
Surr: 2-Fluorophenol	2.487	0	2.68	0	92.8	37	125	0		
Surr: 4-Terphenyl-d14	2.447	0	2.68	0	91.3	69	128	0		
Surr: Nitrobenzene-d5	2.733	0	2.68	0	102	45	125	0		
Surr: Phenol-d6	2.4	0	2.68	0	89.6	40	125	0		

Sample ID **0505120-03C MS**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 7:51:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
1,2,4-Trichlorobenzene	1.418	0.157	1.583	0	89.6	34	152	0		
1,4-Dichlorobenzene	1.41	0.157	1.583	0	89.1	25	135	0		
2,4-Dinitrotoluene	1.694	0.157	1.583	0	107	29	149	0		
2-Chlorophenol	1.3	0.157	1.583	0	82.1	31	135	0		
4-Chloro-3-methylphenol	1.631	0.157	1.583	0	103	34	135	0		
4-Nitrophenol	1.828	0.78	1.583	0	115	25	141	0		
Acenaphthene	1.457	0.157	1.583	0	92	39	135	0		
N-Nitrosodi-n-propylamine	1.591	0.157	1.583	0	100	27	135	0		
Pentachlorophenol	1.063	0.157	1.583	0	67.2	38	146	0		
Phenol	1.379	0.157	1.583	0	87.1	25	135	0		
Pyrene	1.52	0.157	1.583	0	96	37	146	0		
Surr: 2,4,6-Tribromophenol	3.23	0	3.167	0	102	60	153	0		
Surr: 2-Fluorobiphenyl	3.135	0	3.167	0	99	70	135	0		
Surr: 2-Fluorophenol	3.08	0	3.167	0	97.3	37	125	0		
Surr: 4-Terphenyl-d14	3.285	0	3.167	0	104	69	128	0		
Surr: Nitrobenzene-d5	3.387	0	3.167	0	107	45	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **0505120-03C MS**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 7:51:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Surr: Phenol-d6	2.915	0	3.167	0	92	40	125	0		

Sample ID **0505120-03C MSD**	Batch ID: **19196**	TestNo: **SW8270C**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 8:30:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	1.299	0.156	1.573	0	82.6	34	152	8.73	30	
1,4-Dichlorobenzene	1.284	0.156	1.573	0	81.6	25	135	9.39	30	
2,4-Dinitrotoluene	1.581	0.156	1.573	0	100	29	149	6.88	30	
2-Chlorophenol	1.221	0.156	1.573	0	77.6	31	135	6.25	30	
4-Chloro-3-methylphenol	1.479	0.156	1.573	0	94	34	135	9.73	30	
4-Nitrophenol	1.753	0.775	1.573	0	111	25	141	4.15	30	
Acenaphthene	1.354	0.156	1.573	0	86.1	39	135	7.35	30	
N-Nitrosodi-n-propylamine	1.495	0.156	1.573	0	95	27	135	6.24	30	
Pentachlorophenol	0.9862	0.156	1.573	0	62.7	38	146	7.54	30	
Phenol	1.307	0.156	1.573	0	83.1	25	135	5.32	30	
Pyrene	1.44	0.156	1.573	0	91.5	37	146	5.42	30	
Surr: 2,4,6-Tribromophenol	3.021	0	3.146	0	96	60	153	0		
Surr: 2-Fluorobiphenyl	2.951	0	3.146	0	93.8	70	135	0		
Surr: 2-Fluorophenol	2.896	0	3.146	0	92	37	125	0		
Surr: 4-Terphenyl-d14	3.107	0	3.146	0	98.8	69	128	0		
Surr: Nitrobenzene-d5	3.193	0	3.146	0	101	45	125	0		
Surr: Phenol-d6	2.763	0	3.146	0	87.8	40	125	0		

Sample ID **ICV1-050524**	Batch ID: **R22145**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:16:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,2,4-Trichlorobenzene	3.8	0.133	4	0	95	80	120	0		
1,2-Dichlorobenzene	3.74	0.133	4	0	93.5	80	120	0		
1,3-Dichlorobenzene	3.8	0.133	4	0	95	80	120	0		
1,4-Dichlorobenzene	3.85	0.133	4	0	96.2	80	120	0		
2,4,5-Trichlorophenol	3.91	0.133	4	0	97.8	80	120	0		
2,4,6-Trichlorophenol	3.94	0.133	4	0	98.5	80	120	0		
2,4-Dichlorophenol	3.91	0.133	4	0	97.8	80	120	0		
2,4-Dimethylphenol	4.15	0.133	4	0	104	80	120	0		
2,4-Dinitrophenol	3.62	0.66	4	0	90.5	80	120	0		
2,4-Dinitrotoluene	4.33	0.133	4	0	108	80	120	0		
2,6-Dinitrotoluene	3.88	0.133	4	0	97	80	120	0		
2-Chloronaphthalene	3.79	0.133	4	0	94.8	80	120	0		
2-Chlorophenol	3.79	0.133	4	0	94.8	80	120	0		
2-Methylnaphthalene	3.79	0.133	4	0	94.8	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **ICV1-050524**	Batch ID: **R22145**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:16:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
2-Methylphenol	3.83	0.133	4	0	95.8	80	120	0		
2-Nitroaniline	4.67	0.133	4	0	117	80	120	0		
2-Nitrophenol	4.07	0.133	4	0	102	80	120	0		
3,3'-Dichlorobenzidine	4.27	0.133	4	0	107	70	130	0		
3-Nitroaniline	3.96	0.133	4	0	99	80	120	0		
4,6-Dinitro-2-methylphenol	3.69	0.33	4	0	92.2	70	130	0		
4-Bromophenyl phenyl ether	3.9	0.133	4	0	97.5	80	120	0		
4-Chloro-3-methylphenol	4.1	0.133	4	0	103	70	130	0		
4-Chloroaniline	3.85	0.33	4	0	96.2	80	120	0		
4-Chlorophenyl phenyl ether	3.61	0.133	4	0	90.2	80	120	0		
4-Methylphenol	3.81	0.133	4	0	95.2	80	120	0		
4-Nitroaniline	3.64	0.133	4	0	91	80	120	0		
4-Nitrophenol	5.11	0.66	4	0	128	60	140	0		
Acenaphthene	3.75	0.133	4	0	93.8	80	120	0		
Acenaphthylene	3.74	0.133	4	0	93.5	80	120	0		
Aniline	3.96	0.133	4	0	99	80	120	0		
Anthracene	3.73	0.133	4	0	93.2	80	120	0		
Benzo[a]anthracene	3.79	0.133	4	0	94.8	80	120	0		
Benzo[a]pyrene	4.08	0.133	4	0	102	80	120	0		
Benzo[b]fluoranthene	4.17	0.133	4	0	104	80	120	0		
Benzo[g,h,i]perylene	4.09	0.133	4	0	102	80	120	0		
Benzo[k]fluoranthene	3.92	0.133	4	0	98	80	120	0		
Benzyl alcohol	3.94	0.33	4	0	98.5	70	130	0		
Bis(2-chloroethoxy)methane	3.94	0.133	4	0	98.5	80	120	0		
Bis(2-chloroethyl)ether	3.83	0.133	4	0	95.8	80	120	0		
Bis(2-chloroisopropyl)ether	4.04	0.133	4	0	101	80	120	0		
Bis(2-ethylhexyl)phthalate	4.3	0.133	4	0	108	80	120	0		
Butyl benzyl phthalate	4.25	0.33	4	0	106	80	120	0		
Chrysene	3.76	0.133	4	0	94	80	120	0		
Di-n-butyl phthalate	3.88	0.33	4	0	97	80	120	0		
Di-n-octyl phthalate	4.54	0.33	4	0	114	80	120	0		
Dibenz[a,h]anthracene	4.16	0.133	4	0	104	80	120	0		
Dibenzofuran	3.74	0.133	4	0	93.5	80	120	0		
Diethyl phthalate	3.81	0.33	4	0	95.2	80	120	0		
Dimethyl phthalate	3.86	0.33	4	0	96.5	80	120	0		
Fluoranthene	3.85	0.133	4	0	96.2	80	120	0		
Fluorene	3.61	0.133	4	0	90.2	80	120	0		
Hexachlorobenzene	3.8	0.133	4	0	95	80	120	0		
Hexachlorobutadiene	4.08	0.133	4	0	102	80	120	0		
Hexachlorocyclopentadiene	4.34	0.33	4	0	108	70	130	0		
Hexachloroethane	4.06	0.133	4	0	102	80	120	0		
Indeno[1,2,3-cd]pyrene	4.2	0.133	4	0	105	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050524A

Sample ID **ICV1-050524**	Batch ID: **R22145**	TestNo: **SW8270C**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GCMS4_050524A**	Analysis Date: **5/24/2005 11:16:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Isophorone	4.36	0.133	4	0	109	80	120	0		
N-Nitrosodi-n-propylamine	4.23	0.133	4	0	106	80	120	0		
N-Nitrosodiphenylamine	3.76	0.133	4	0	94	80	120	0		
Naphthalene	3.75	0.133	4	0	93.8	80	120	0		
Nitrobenzene	4.19	0.133	4	0	105	80	120	0		
Pentachlorophenol	3.35	0.133	4	0	83.8	80	120	0		
Phenanthrene	3.73	0.133	4	0	93.2	80	120	0		
Phenol	4.08	0.133	4	0	102	80	120	0		
Pyrene	3.76	0.133	4	0	94	80	120	0		
Surr: 2,4,6-Tribromophenol	3.94	0	4	0	98.5	80	120	0		
Surr: 2-Fluorobiphenyl	3.87	0	4	0	96.8	80	120	0		
Surr: 2-Fluorophenol	3.83	0	4	0	95.8	80	120	0		
Surr: 4-Terphenyl-d14	3.83	0	4	0	95.8	80	120	0		
Surr: Nitrobenzene-d5	4.27	0	4	0	107	80	120	0		
Surr: Phenol-d6	3.79	0	4	0	94.8	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050519A

Sample ID **0505123-02A DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.28	0	0	16.27	0	0	0	0.0587	30	

Sample ID **0505125-01B DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.91	0	0	14.71	0	0	0	14.0	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050519B

Sample ID **0505125-10B DUP**	Batch ID: **PMOIST-5/20/05B**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519B**	Analysis Date: **5/19/2005 5:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.03	0	0	10.59	0	0	0	5.47	30	

Sample ID **0505125-17A DU**	Batch ID: **PMOIST-5/20/05B**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519B**	Analysis Date: **5/19/2005 5:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.46	0	0	17.04	0	0	0	3.50	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505125
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050523A

Sample ID **0505125-27A DUP**	Batch ID: **PMOIST-5/24/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050523A**	Analysis Date: **5/23/2005 3:30:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	11	0	0	10.94	0	0	0	0.493	30	

Sample ID **0505138-02B DUP**	Batch ID: **PMOIST-5/24/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050523A**	Analysis Date: **5/23/2005 3:30:00 PM**	Prep Date: **5/23/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.42	0	0	7.867	0	0	0	28.0	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

APPENDIX D

Laboratory Analytical Data and Chain-of-Custody Record, Background Soil Samples Collected on May 17, 2005

DHL ANALYTICAL

May 25, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii, Smith Serivices Drilco-Hobbs, NM ES

Order No.: 0505117

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 8 samples on 5/18/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii, Smith Services Drilco-Hobbs, NM ESA (DHL Work Order 0505117) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Case Narrative	6
• Work Order Sample Summary	7
• Preparation Dates Report	8
• Analytical Dates Report	9
• Sample Results	10-17
• QC Summary Report	18-20
• Total Number of Pages	20

May 25, 2005

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL
2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 20162

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Box 60068, Houston, TX 77205-0068
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi email: KLampi@cox.net

DATE: 17 May 2005 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0505117
PROJECT LOCATION OR NAME: Sii, Smith Services Drilco - Hobbs, NM
CLIENT PROJECT #: DrilcoHobbs110403 COLLECTOR: K. Lampi ESA

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No
Sample Prefix: NM-HB-DRL-

S=SOIL P=PAINT W=WATER SL=SLUDGE A=AIR OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
BG1	-01	5/17	1200	S	G	1				X		As - Total	
BG2	-02	5/17	1205	S	G	1				X		As - Total	
BG3	-03	5/17	1210	S	G	1				X		As - Total	
BG4	-04	5/17	1215	S	G	1				X		As - Total	
BG5	-05	5/17	1220	S	G	1				X		As - Total	
BG6	-06	5/17	1225	S	G	1				X		As - Total	
BG7	-07	5/17	1230	S	G	1				X		As - Total	
BG8	-08	5/17	1235	S	G	1				X		As - Total	
TOTAL													

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

RELINQUISHED BY: (Signature) Kent N. Lampi — DATE/TIME 17/MAY 2005 1600 — RECEIVED BY: (Signature) FED EX
RELINQUISHED BY: (Signature) FED EX — DATE/TIME 5.18.5 0815 — RECEIVED BY: (Signature) Mark Wood
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5 5.5 THERM #: 47
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # FED EX
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express **USA Airbill**

FedEx Tracking Number 8398 9314 4404

Form I.D. No. 0200

1. From

Date 5/17/05

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

Dept./Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City Round Rock State TX ZIP [illegible]

8398 9314 4404

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling — Include FedEx address in Section 3

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below

- [ ] Obtain Recip Acct. No.
- [ ] Sender — Acct. No. in Section 1 will be billed
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
		$ .00	Credit Card Auth

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 Release Signature — *Sign to authorize delivery without obtaining signature*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

Rev. Date 10/01 • Part #157611 • ©1994-2001 FedEx • PRINTED IN U.S.A. WCL 03

446

MAY SEAL 17 MAY 05

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 5/18/2005

Work Order Numbe 0505117 | Received by MLW

Checklist completed by [signature] 5/18/05 (Signature / Date) | Reviewed by JD (Initials) 5/18/05 (Date)

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked b _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA
Lab Order: 0505117

CASE NARRATIVE

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method D2215 - Percent Moisture

LOG IN

Samples were received and log-in performed on 5/18/05. A total of 8 samples were received. The samples arrived in good condition and were properly packaged.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

DHL Analytical

Date: *25-May-05*

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA
Lab Order: 0505117

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0505117-01	NM-HB-DRL-BG1		5/17/2005 12:00:00 P	5/18/2005
0505117-02	NM-HB-DRL-BG2		5/17/2005 12:05:00 P	5/18/2005
0505117-03	NM-HB-DRL-BG3		5/17/2005 12:10:00 P	5/18/2005
0505117-04	NM-HB-DRL-BG4		5/17/2005 12:15:00 P	5/18/2005
0505117-05	NM-HB-DRL-BG5		5/17/2005 12:20:00 P	5/18/2005
0505117-06	NM-HB-DRL-BG6		5/17/2005 12:25:00 P	5/18/2005
0505117-07	NM-HB-DRL-BG7		5/17/2005 12:30:00 P	5/18/2005
0505117-08	NM-HB-DRL-BG8		5/17/2005 12:35:00 P	5/18/2005

Lab Order: 0505117
Client: SMITH INTERNATIONAL
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0505117-01A	NM-HB-DRL-BG1	5/17/2005 12:00:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG1	5/17/2005 12:00:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-02A	NM-HB-DRL-BG2	5/17/2005 12:05:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG2	5/17/2005 12:05:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-03A	NM-HB-DRL-BG3	5/17/2005 12:10:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG3	5/17/2005 12:10:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-04A	NM-HB-DRL-BG4	5/17/2005 12:15:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG4	5/17/2005 12:15:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-05A	NM-HB-DRL-BG5	5/17/2005 12:20:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG5	5/17/2005 12:20:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-06A	NM-HB-DRL-BG6	5/17/2005 12:25:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG6	5/17/2005 12:25:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-07A	NM-HB-DRL-BG7	5/17/2005 12:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG7	5/17/2005 12:30:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A
0505117-08A	NM-HB-DRL-BG8	5/17/2005 12:35:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	5/19/2005 9:00:00 AM	19146
	NM-HB-DRL-BG8	5/17/2005 12:35:00 PM	Soil	D2216	Percent Moisture	5/19/2005 12:15:00 P	PMOIST-5/19/05A

Lab Order: 0505117
Client: SMITH INTERNATIONAL
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0505117-01A	NM-HB-DRL-BG1	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:17:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG1	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-02A	NM-HB-DRL-BG2	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:21:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG2	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-03A	NM-HB-DRL-BG3	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:25:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG3	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-04A	NM-HB-DRL-BG4	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:29:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG4	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-05A	NM-HB-DRL-BG5	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:33:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG5	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-06A	NM-HB-DRL-BG6	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:37:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG6	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-07A	NM-HB-DRL-BG7	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:41:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG7	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A
0505117-08A	NM-HB-DRL-BG8	Soil	SW6020	Trace Metals: ICP-MS - Soil	19146	5	5/19/2005 7:45:00 PM	ICP-MS_050519A
	NM-HB-DRL-BG8	Soil	D2216	Percent Moisture	PMOIST-5/19/05A	1	5/19/2005 4:15:00 PM	PMOIST_050519A

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG1
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-01
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:00:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.20	0.54	1.07		mg/Kg-dry	5	5/19/2005 7:17:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.3	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG2
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-02
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:05:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.05	0.47	0.948		mg/Kg-dry	5	5/19/2005 7:21:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	5.85	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG3
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-03
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:10:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.78	0.52	1.04		mg/Kg-dry	5	5/19/2005 7:25:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.4	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG4
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-04
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:15:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.58	0.53	1.06		mg/Kg-dry	5	5/19/2005 7:29:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	10.4	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG5
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-05
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:20:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.52	0.56	1.12		mg/Kg-dry	5	5/19/2005 7:33:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	13.3	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG6
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-06
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:25:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.85	0.52	1.04		mg/Kg-dry	5	5/19/2005 7:37:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	8.49	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG7
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-07
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:30:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.54	0.50	0.990		mg/Kg-dry	5	5/19/2005 7:41:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	11.4	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BG8
Project Name:	Sii, Smith Serivices Drilco-Hobbs, NM ESA	**Lab ID:**	0505117-08
Project No:	Drilco Hobbs 110403	**Collection Date:**	5/17/2005 12:35:00 PM
Lab Order:	0505117	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	5.43	0.53	1.06		mg/Kg-dry	5	5/19/2005 7:45:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **TGK**	
Percent Moisture	13.3	0			WT%	1	5/19/2005 4:15:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *25-May-05*

CLIENT: SMITH INTERNATIONAL
Work Order: 0505117
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID	MB-19146	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg
SampType	MBLK	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 5:51:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								

Sample ID	LCS-19146	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg
SampType	LCS	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:12:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.42	1	50	0	90.8	80	120	0		

Sample ID	LCSD-19146	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg
SampType	LCSD	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:16:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.95	1	50	0	91.9	80	120	1.15	25	

Sample ID	0505120-06C MS	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	MS	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:21:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.4	1.06	52.84	1.422	88.9	80	120	0		

Sample ID	0505120-06C MSD	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	MSD	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:25:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.07	1.1	54.93	1.422	88.6	80	120	3.39	25	

Sample ID	0505120-06C PDS	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	PDS	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:29:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.96	1.08	53.87	1.422	92	75	125	0		

Sample ID	0505120-06C SD	Batch ID:	19146	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	SD	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:00:00 PM	Prep Date:	5/19/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	5.39	0	1.422	0	0	0	0	10	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505117
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_050519A

Sample ID	CCV2-050519	Batch ID:	R22083	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 5:35:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	189.4	6	200	0	94.7	90	110	0		

Sample ID	CCV3-050519	Batch ID:	R22083	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 6:37:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	187.8	6	200	0	93.9	90	110	0		

Sample ID	CCV4-050519	Batch ID:	R22083	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 7:58:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191	6	200	0	95.5	90	110	0		

Sample ID	ICV1-050519	Batch ID:	R22083	TestNo:	SW6020	Units:	µg/L
SampType	ICV	Run ID:	ICP-MS_050519A	Analysis Date:	5/19/2005 3:38:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	99.13	6	100	0	99.1	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0505117
Project: Sii, Smith Serivices Drilco-Hobbs, NM ESA

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050519A

Sample ID **0505123-02A DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	16.28	0	0	16.27	0	0	0	0.0587	30	

Sample ID **0505125-01B DUP**	Batch ID: **PMOIST-5/19/05A**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050519A**	Analysis Date: **5/19/2005 4:15:00 PM**	Prep Date: **5/19/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	16.91	0	0	14.71	0	0	0	14.0	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

APPENDIX E

Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on June 23, 2005

DHL ANALYTICAL

June 30, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii, Smith Services Drilco-Hobbs, REM

Order No.: 0506159

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 37 samples on 6/24/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii, Smith Services Drilco-Hobbs, REM (DHL Work Order 0506159) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-7
• Case Narrative	8
• Work Order Sample Summary	9
• Preparation Dates Report	10-13
• Analytical Dates Report	14-17
• Sample Results	18-54
• QC Summary Report	55-64
• Total Number of Pages	64

June 30, 2005

Approved: _____
John DuPont

DHL ANALYTICAL
2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 27584

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: Kurt Lampi

DATE: 6-23-05 PAGE 1 OF 3
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: Sij Smith Services Drilco - Hobbs, NM Rep
CLIENT PROJECT #: Drilco Hobbs - 110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No
Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass 4oz

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ / TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ / GASOLINE MOD 8015 ☐ / DIESEL - MOD 8015 ☐ / VOC 8260 ☐ / SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ / 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ / 8082 PCBS ☐ / TCLP - METALS (RCRA) ☐ TCLP VOC ☐ / TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ / TOTAL METALS (RCRA) ☐ OTHER LIST ☐ / LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ / RCI ☐ TOX ☐ FLASHPOINT ☐ / TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ / pH ☐ HEXAVALENT CHROMIUM ☐ / EXPLOSIVES ☐ PECHLORATE ☐ / CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ / As - Total

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
2-6	01	6/23	0905	S	G	1				X		As - Total	
2-7	02	6/23	0910	S	G	1				X		As - Total	
2-8	03	6/23	0915	S	G	1				X		As - Total	
2-9	04	6/23	0920	S	G	1				X		As - Total	
2-10	05	6/23	0925	S	G	1				X		As - Total	
2-11	06	6/23	0930	S	G	1				X		As - Total	
1-39	07	6/23	0820	S	G	1				X		DIESEL - MOD 8015 ☐	
1-40	08	6/23	0830	S	G	1				X		DIESEL - MOD 8015 ☐	
1-41	09	6/23	0840	S	G	1				X		DIESEL - MOD 8015 ☐	
1-42	10	6/23	0850	S	G	1				X		DIESEL - MOD 8015 ☐	
1-43	11	6/23	0900	S	G	1				X		DIESEL - MOD 8015 ☐	
1-44	12	6/23	0810	S	G	1				X		DIESEL - MOD 8015 ☐	
1-45	13	6/23	0940	S	G	1				X		DIESEL - MOD 8015 ☐	
1-46	14	6/23	0945	S	G	1				X		DIESEL - MOD 8015 ☐	
1-47	15	6/23	0950	S	G	1				X		DIESEL - MOD 8015 ☐	
TOTAL													

RELINQUISHED BY: (Signature) Kurt W. Lampi DATE/TIME 23 June 2005 1320 RECEIVED BY: (Signature) FEDEX
RELINQUISHED BY: (Signature) FEDEX DATE/TIME 6-24-5 0830 RECEIVED BY: (Signature) Martin West
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.0 THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FEDEX
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL
2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 27977

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: Kurt Lampi

DATE: 6-23-05 PAGE 2 OF 3
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: S.I. Smith Services Drilco-Hobbs, NM R&M
CLIENT PROJECT #: Drilco Hobbs - 110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G - Glass 4oz.

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ | TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ | As Total | FIELD NOTES

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	As Total	FIELD NOTES
1-48	16	6/23	1100	S	G	1				X					X												X				
1-49	17		1105			1				X					X												X				
1-50	18		1110			1				X					X												X				
1-51	19		1115			1				X					X												X				
1-52	20		1120			1				X					X												X				
1-53	21		1125			1				X					X																
1-54	22		1130			1				X					X																
1-55	23		1135			1				X					X																
1-56	24		1140			1				X					X																
1-57	25		1145			1				X					X																
1-58	26		1150			1				X					X																
1-59	27		1155			1				X					X																
1-60	28		1200			1				X					X																
1-61	29		1205			1				X					X																
1-62	30		1210			1				X					X																
TOTAL																															

RELINQUISHED BY: (Signature) Kurt W. Lampi DATE/TIME 6/23/05 1320 RECEIVED BY: (Signature) fed EX
RELINQUISHED BY: (Signature) fed EX DATE/TIME 6-24-5 0830 RECEIVED BY: (Signature) Martin Wet
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.0 THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FEDEX
☐ APC DELIVERY
☐ HAND DELIVERED

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 27976

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: Kurt Lamp

DATE: 6-23-05 PAGE 3 OF 3
PO #: DHL WORK ORDER #:
PROJECT LOCATION OR NAME: Sii Smith Services - Hobbs, NM RGM
CLIENT PROJECT #: DrilcoHobbs-110403 COLLECTOR: K. Lamp

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	As Total	FIELD NOTES
1-63	31	6/23	1215	S	G	1				X					X															
1-64	32	6/23	1220	S	G	1				X					X														X	
1-65	33	6/23	1225	S	G	1				X					X														X	
1-66	34	6/23	1230	S	G	1				X					X														X	
1-67	35	6/23	1235	S	G	1				X					X															
1-68	36	6/23	1240	S	G	1				X					X															
1-69	37	6/23	1245	S	G	1				X					X															
TOTAL																													

RELINQUISHED BY: (Signature) Kurt W. Lamp DATE/TIME 6/23/05 1320 RECEIVED BY: (Signature) Fed Ex

RELINQUISHED BY: (Signature) Fed Ex DATE/TIME 6-24-5 0830 RECEIVED BY: (Signature) Mark Wed

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.0 THERM #: 12
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FED EX
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx. USA Airbill
Express

FedEx Tracking Number 8432 1358 3857

Form ID No. 0215

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 6/23/95 FedEx Tracking Number 843213583857

Sender's Name Kurt L[illegible] Phone [illegible]

Company 3-D F[illegible]

Address 431[illegible]

Dept./Floor/Suite/Room

City [illegible] State [illegible] ZIP 7[illegible]

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name [illegible] Phone 512 388-8222

Company DHL ANALYTICAL

Address 2000 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City ROUND ROCK State TX ZIP 78664-3801

8432 1358 3857

0264405[illegible]

4a Express Package Service

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx 2Day — Second business day. FedEx Envelope rate not available. Minimu

4b Express Freight Service

- [ ] FedEx 1Day Freight* — Next business day

* Call for Confirmation: _____

5 Packaging

- [ ] FedEx Envelope*

6 Special Handling

- [ ] **SATURDAY Delivery** — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

Does this shipment contain dangerous goods?

One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Obtain Recip Acct. No. [ ]

Total Packages	Total Weight	Total Charges
1	5	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

CUSTODY SEAL
DATE 6-23-95 182
SIGNATURE

[illegible] Guelli
8092

[illegible] Environmental Containers

DHL Analytical

Sample Receipt Checklist

Client Name **SMITH INTERNATIONAL** Date Received: **6/24/05**

Work Order Number **0506159** Received by MLW

Checklist completed by Signature 6/24/05 Date Reviewed by JD Initials 6/24/05 Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM
Lab Order: 0506159

CASE NARRATIVE

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method M8015D - Diesel and Organic Range Organics
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 6/23/05. A total of 37 samples were received. The samples arrived in good condition and were properly packaged.

DRO and ORO ANALYSIS

For DRO and ORO analysis the surrogate recovery for samples NM-HB-DRL-1-45, NM-HB-DRL-1-58 and NM-HB-DRL-1-60 was above control limits for Octacosane. This is due to the sample co-eluting with the surrogate. No further corrective actions were taken.

The recovery for the matrix spike was slightly below control limits for TPH-DRO C10-C28. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. No further corrective actions were taken.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

DHL Analytical

Date: *30-Jun-05*

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM
Lab Order: 0506159

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0506159-01	NM-HB-DRL-2-6		6/23/2005 9:05:00 AM	6/24/2005
0506159-02	NM-HB-DRL-2-7		6/23/2005 9:10:00 AM	6/24/2005
0506159-03	NM-HB-DRL-2-8		6/23/2005 9:15:00 AM	6/24/2005
0506159-04	NM-HB-DRL-2-9		6/23/2005 9:20:00 AM	6/24/2005
0506159-05	NM-HB-DRL-2-10		6/23/2005 9:25:00 AM	6/24/2005
0506159-06	NM-HB-DRL-2-11		6/23/2005 9:30:00 AM	6/24/2005
0506159-07	NM-HB-DRL-1-39		6/23/2005 8:20:00 AM	6/24/2005
0506159-08	NM-HB-DRL-1-40		6/23/2005 8:30:00 AM	6/24/2005
0506159-09	NM-HB-DRL-1-41		6/23/2005 8:40:00 AM	6/24/2005
0506159-10	NM-HB-DRL-1-42		6/23/2005 8:50:00 AM	6/24/2005
0506159-11	NM-HB-DRL-1-43		6/23/2005 9:00:00 AM	6/24/2005
0506159-12	NM-HB-DRL-1-44		6/23/2005 8:10:00 AM	6/24/2005
0506159-13	NM-HB-DRL-1-45		6/23/2005 9:40:00 AM	6/24/2005
0506159-14	NM-HB-DRL-1-46		6/23/2005 9:45:00 AM	6/24/2005
0506159-15	NM-HB-DRL-1-47		6/23/2005 9:50:00 AM	6/24/2005
0506159-16	NM-HB-DRL-1-48		6/23/2005 11:00:00 AM	6/24/2005
0506159-17	NM-HB-DRL-1-49		6/23/2005 11:05:00 AM	6/24/2005
0506159-18	NM-HB-DRL-1-50		6/23/2005 11:10:00 AM	6/24/2005
0506159-19	NM-HB-DRL-1-51		6/23/2005 11:15:00 AM	6/24/2005
0506159-20	NM-HB-DRL-1-52		6/23/2005 11:20:00 AM	6/24/2005
0506159-21	NM-HB-DRL-1-53		6/23/2005 11:25:00 AM	6/24/2005
0506159-22	NM-HB-DRL-1-54		6/23/2005 11:30:00 AM	6/24/2005
0506159-23	NM-HB-DRL-1-55		6/23/2005 11:35:00 AM	6/24/2005
0506159-24	NM-HB-DRL-1-56		6/23/2005 11:40:00 AM	6/24/2005
0506159-25	NM-HB-DRL-1-57		6/23/2005 11:45:00 AM	6/24/2005
0506159-26	NM-HB-DRL-1-58		6/23/2005 11:50:00 AM	6/24/2005
0506159-27	NM-HB-DRL-1-59		6/23/2005 11:55:00 AM	6/24/2005
0506159-28	NM-HB-DRL-1-60		6/23/2005 12:00:00 PM	6/24/2005
0506159-29	NM-HB-DRL-1-61		6/23/2005 12:05:00 PM	6/24/2005
0506159-30	NM-HB-DRL-1-62		6/23/2005 12:10:00 PM	6/24/2005
0506159-31	NM-HB-DRL-1-63		6/23/2005 12:15:00 PM	6/24/2005
0506159-32	NM-HB-DRL-1-64		6/23/2005 12:20:00 PM	6/24/2005
0506159-33	NM-HB-DRL-1-65		6/23/2005 12:25:00 PM	6/24/2005
0506159-34	NM-HB-DRL-1-66		6/23/2005 12:30:00 PM	6/24/2005
0506159-35	NM-HB-DRL-1-67		6/23/2005 12:35:00 PM	6/24/2005
0506159-36	NM-HB-DRL-1-68		6/23/2005 12:40:00 PM	6/24/2005
0506159-37	NM-HB-DRL-1-69		6/23/2005 12:45:00 PM	6/24/2005

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0506159-01A	NM-HB-DRL-2-6	6/23/2005 9:05:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-6	6/23/2005 9:05:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-02A	NM-HB-DRL-2-7	6/23/2005 9:10:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-7	6/23/2005 9:10:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-03A	NM-HB-DRL-2-8	6/23/2005 9:15:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-8	6/23/2005 9:15:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-04A	NM-HB-DRL-2-9	6/23/2005 9:20:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-9	6/23/2005 9:20:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-05A	NM-HB-DRL-2-10	6/23/2005 9:25:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-10	6/23/2005 9:25:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-06A	NM-HB-DRL-2-11	6/23/2005 9:30:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-2-11	6/23/2005 9:30:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-07A	NM-HB-DRL-1-39	6/23/2005 8:20:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-39	6/23/2005 8:20:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-08A	NM-HB-DRL-1-40	6/23/2005 8:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-40	6/23/2005 8:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-40	6/23/2005 8:30:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-09A	NM-HB-DRL-1-41	6/23/2005 8:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-41	6/23/2005 8:40:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-10A	NM-HB-DRL-1-42	6/23/2005 8:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-42	6/23/2005 8:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-42	6/23/2005 8:50:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-11A	NM-HB-DRL-1-43	6/23/2005 9:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0506159-11A	NM-HB-DRL-1-43	6/23/2005 9:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-43	6/23/2005 9:00:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-12A	NM-HB-DRL-1-44	6/23/2005 8:10:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-44	6/23/2005 8:10:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-13A	NM-HB-DRL-1-45	6/23/2005 9:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-45	6/23/2005 9:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-45	6/23/2005 9:40:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-14A	NM-HB-DRL-1-46	6/23/2005 9:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-46	6/23/2005 9:45:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-15A	NM-HB-DRL-1-47	6/23/2005 9:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-47	6/23/2005 9:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-47	6/23/2005 9:50:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-16A	NM-HB-DRL-1-48	6/23/2005 11:00:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-48	6/23/2005 11:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-48	6/23/2005 11:00:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-17A	NM-HB-DRL-1-49	6/23/2005 11:05:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-49	6/23/2005 11:05:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-49	6/23/2005 11:05:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-18A	NM-HB-DRL-1-50	6/23/2005 11:10:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-50	6/23/2005 11:10:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-50	6/23/2005 11:10:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-19A	NM-HB-DRL-1-51	6/23/2005 11:15:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-51	6/23/2005 11:15:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0506159-19A	NM-HB-DRL-1-51	6/23/2005 11:15:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-20A	NM-HB-DRL-1-52	6/23/2005 11:20:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-52	6/23/2005 11:20:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-52	6/23/2005 11:20:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06./27/05B
0506159-21A	NM-HB-DRL-1-53	6/23/2005 11:25:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-53	6/23/2005 11:25:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-22A	NM-HB-DRL-1-54	6/23/2005 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-54	6/23/2005 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-54	6/23/2005 11:30:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-23A	NM-HB-DRL-1-55	6/23/2005 11:35:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-55	6/23/2005 11:35:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-55	6/23/2005 11:35:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-24A	NM-HB-DRL-1-56	6/23/2005 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-56	6/23/2005 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-56	6/23/2005 11:40:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-25A	NM-HB-DRL-1-57	6/23/2005 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-57	6/23/2005 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-57	6/23/2005 11:45:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-26A	NM-HB-DRL-1-58	6/23/2005 11:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/27/2005 9:55:54 AM	19484
	NM-HB-DRL-1-58	6/23/2005 11:50:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-27A	NM-HB-DRL-1-59	6/23/2005 11:55:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-59	6/23/2005 11:55:00 AM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-28A	NM-HB-DRL-1-60	6/23/2005 12:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0506159-28A	NM-HB-DRL-1-60	6/23/2005 12:00:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-29A	NM-HB-DRL-1-61	6/23/2005 12:05:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-61	6/23/2005 12:05:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-30A	NM-HB-DRL-1-62	6/23/2005 12:10:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-62	6/23/2005 12:10:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-31A	NM-HB-DRL-1-63	6/23/2005 12:15:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-63	6/23/2005 12:15:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-32A	NM-HB-DRL-1-64	6/23/2005 12:20:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-64	6/23/2005 12:20:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-64	6/23/2005 12:20:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-33A	NM-HB-DRL-1-65	6/23/2005 12:25:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-65	6/23/2005 12:25:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-65	6/23/2005 12:25:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-34A	NM-HB-DRL-1-66	6/23/2005 12:30:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-1-66	6/23/2005 12:30:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-66	6/23/2005 12:30:00 PM	Soil	D2216	Percent Moisture	6/24/2005	PMOIST-06/27/05C
0506159-35A	NM-HB-DRL-1-67	6/23/2005 12:35:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-67	6/23/2005 12:35:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A
0506159-36A	NM-HB-DRL-1-68	6/23/2005 12:40:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-68	6/23/2005 12:40:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A
0506159-37A	NM-HB-DRL-1-69	6/23/2005 12:45:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	6/28/2005 8:26:50 AM	19494
	NM-HB-DRL-1-69	6/23/2005 12:45:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506159-01A	NM-HB-DRL-2-6	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 12:35:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-6	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-02A	NM-HB-DRL-2-7	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 12:39:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-7	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-03A	NM-HB-DRL-2-8	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 12:43:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-8	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-04A	NM-HB-DRL-2-9	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 12:47:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-9	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-05A	NM-HB-DRL-2-10	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:02:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-10	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-06A	NM-HB-DRL-2-11	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:06:00 PM	ICP-MS2_050628A
	NM-HB-DRL-2-11	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-07A	NM-HB-DRL-1-39	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 3:22:12 PM	GC15_050628B
	NM-HB-DRL-1-39	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-08A	NM-HB-DRL-1-40	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:03:03 PM	GC15_050628B
	NM-HB-DRL-1-40	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 6:11:07 PM	GC15_050629A
	NM-HB-DRL-1-40	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-09A	NM-HB-DRL-1-41	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 9:14:15 PM	GC15_050628A
	NM-HB-DRL-1-41	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-10A	NM-HB-DRL-1-42	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:27:23 PM	GC15_050628B
	NM-HB-DRL-1-42	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 6:36:15 PM	GC15_050629A
	NM-HB-DRL-1-42	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-11A	NM-HB-DRL-1-43	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:51:35 PM	GC15_050628B

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506159-11A	NM-HB-DRL-1-43	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 7:01:18 PM	GC15_050629A
	NM-HB-DRL-1-43	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-12A	NM-HB-DRL-1-44	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 9:38:43 PM	GC15_050628A
	NM-HB-DRL-1-44	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-13A	NM-HB-DRL-1-45	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	10	6/29/2005 7:51:14 PM	GC15_050629A
	NM-HB-DRL-1-45	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:03:03 PM	GC15_050628A
	NM-HB-DRL-1-45	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-14A	NM-HB-DRL-1-46	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 3:46:56 PM	GC15_050628B
	NM-HB-DRL-1-46	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-15A	NM-HB-DRL-1-47	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:27:23 PM	GC15_050628A
	NM-HB-DRL-1-47	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 5:45:54 PM	GC15_050629A
	NM-HB-DRL-1-47	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-16A	NM-HB-DRL-1-48	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:10:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-48	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 4:11:40 PM	GC15_050628B
	NM-HB-DRL-1-48	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-17A	NM-HB-DRL-1-49	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:14:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-49	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 4:36:28 PM	GC15_050628B
	NM-HB-DRL-1-49	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-18A	NM-HB-DRL-1-50	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:18:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-50	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 5:01:12 PM	GC15_050628B
	NM-HB-DRL-1-50	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-19A	NM-HB-DRL-1-51	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:21:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-51	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 5:26:02 PM	GC15_050628B

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506159-19A	NM-HB-DRL-1-51	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-20A	NM-HB-DRL-1-52	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:25:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-52	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 6:22:06 PM	GC15_050628B
	NM-HB-DRL-1-52	Soil	D2216	Percent Moisture	PMOIST-06./27/05B	1	6/24/2005 2:00:00 PM	PMOIST_050624B
0506159-21A	NM-HB-DRL-1-53	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 6:46:54 PM	GC15_050628B
	NM-HB-DRL-1-53	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-22A	NM-HB-DRL-1-54	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 7:36:10 PM	GC15_050628B
	NM-HB-DRL-1-54	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 3:15:02 PM	GC15_050629A
	NM-HB-DRL-1-54	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-23A	NM-HB-DRL-1-55	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 8:00:46 PM	GC15_050628B
	NM-HB-DRL-1-55	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 3:40:06 PM	GC15_050629A
	NM-HB-DRL-1-55	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-24A	NM-HB-DRL-1-56	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 4:05:14 PM	GC15_050629A
	NM-HB-DRL-1-56	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 8:25:19 PM	GC15_050628B
	NM-HB-DRL-1-56	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-25A	NM-HB-DRL-1-57	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/29/2005 4:30:22 PM	GC15_050629A
	NM-HB-DRL-1-57	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 8:49:47 PM	GC15_050628B
	NM-HB-DRL-1-57	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-26A	NM-HB-DRL-1-58	Soil	M8015D	TPH by GC - Soil DRO+ORO	19484	1	6/28/2005 10:51:35 PM	GC15_050628A
	NM-HB-DRL-1-58	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-27A	NM-HB-DRL-1-59	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 3:22:12 PM	GC15_050628A
	NM-HB-DRL-1-59	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-28A	NM-HB-DRL-1-60	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 8:00:46 PM	GC15_050628A

Lab Order: 0506159
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506159-28A	NM-HB-DRL-1-60	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-29A	NM-HB-DRL-1-61	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 8:25:19 PM	GC15_050628A
	NM-HB-DRL-1-61	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-30A	NM-HB-DRL-1-62	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 3:46:56 PM	GC15_050628A
	NM-HB-DRL-1-62	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-31A	NM-HB-DRL-1-63	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 4:11:40 PM	GC15_050628A
	NM-HB-DRL-1-63	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-32A	NM-HB-DRL-1-64	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:29:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-64	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 4:36:28 PM	GC15_050628A
	NM-HB-DRL-1-64	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-33A	NM-HB-DRL-1-65	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 1:33:00 PM	ICP-MS2_050628A
	NM-HB-DRL-1-65	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 5:01:12 PM	GC15_050628A
	NM-HB-DRL-1-65	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-34A	NM-HB-DRL-1-66	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 11:21:00 AM	ICP-MS2_050628A
	NM-HB-DRL-1-66	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 8:49:47 PM	GC15_050628A
	NM-HB-DRL-1-66	Soil	D2216	Percent Moisture	PMOIST-06/27/05C	1	6/24/2005 4:50:00 PM	PMOIST_050624C
0506159-35A	NM-HB-DRL-1-67	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 5:26:02 PM	GC15_050628A
	NM-HB-DRL-1-67	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A
0506159-36A	NM-HB-DRL-1-68	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 7:11:30 PM	GC15_050628A
	NM-HB-DRL-1-68	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A
0506159-37A	NM-HB-DRL-1-69	Soil	M8015D	TPH by GC - Soil DRO+ORO	19494	1	6/28/2005 7:36:10 PM	GC15_050628A
	NM-HB-DRL-1-69	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A

DHL Analytical **Date:** *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-6
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-01
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:05:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	6.33	0.58	1.16		mg/Kg-dry	5	6/28/2005 12:35:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	17.9	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-7
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-02
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:10:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	7.07	0.52	1.03		mg/Kg-dry	5	6/28/2005 12:39:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.0	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-8
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-03
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:15:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	10.0	0.55	1.10		mg/Kg-dry	5	6/28/2005 12:43:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	17.1	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-9
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-04
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:20:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.84	0.57	1.14		mg/Kg-dry	5	6/28/2005 12:47:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	18.5	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-10
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-05
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:25:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	6.29	0.53	1.05		mg/Kg-dry	5	6/28/2005 1:02:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.8	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-11
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-06
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:30:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	6.46	0.56	1.12		mg/Kg-dry	5	6/28/2005 1:06:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	18.6	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - *Analyte detected in the associated Method Blank*

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-39
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-07
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 8:20:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.6	12.1		mg/Kg-dry	1	6/28/2005 3:22:12 PM
TPH-ORO >C28-C35	ND	3.6	12.1		mg/Kg-dry	1	6/28/2005 3:22:12 PM
Surr: o-Terphenyl	77.7	0	47-142		%REC	1	6/28/2005 3:22:12 PM
Surr: Octacosane	85.8	0	25-162		%REC	1	6/28/2005 3:22:12 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	19.9	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-40
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-08
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 8:30:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	11.0		mg/Kg-dry	1	6/29/2005 6:11:07 PM
TPH-ORO >C28-C35	ND	3.3	11.0		mg/Kg-dry	1	6/29/2005 6:11:07 PM
Surr: o-Terphenyl	68.9	0	47-142		%REC	1	6/29/2005 6:11:07 PM
Surr: Octacosane	84.8	0	25-162		%REC	1	6/29/2005 6:11:07 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.4	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-41
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-09
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 8:40:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	74.3	3.4	11.3		mg/Kg-dry	1	6/28/2005 9:14:15 PM
TPH-ORO >C28-C35	44.5	3.4	11.3		mg/Kg-dry	1	6/28/2005 9:14:15 PM
Surr: o-Terphenyl	74.0	0	47-142		%REC	1	6/28/2005 9:14:15 PM
Surr: Octacosane	113	0	25-162		%REC	1	6/28/2005 9:14:15 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	15.5	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-42
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-10
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 8:50:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	10.8		mg/Kg-dry	1	6/29/2005 6:36:15 PM
TPH-ORO >C28-C35	ND	3.3	10.8		mg/Kg-dry	1	6/29/2005 6:36:15 PM
Surr: o-Terphenyl	72.5	0	47-142		%REC	1	6/29/2005 6:36:15 PM
Surr: Octacosane	89.0	0	25-162		%REC	1	6/29/2005 6:36:15 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.2	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-43
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-11
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:00:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.4	11.2		mg/Kg-dry	1	6/29/2005 7:01:18 PM
TPH-ORO >C28-C35	ND	3.4	11.2		mg/Kg-dry	1	6/29/2005 7:01:18 PM
Surr: o-Terphenyl	71.3	0	47-142		%REC	1	6/29/2005 7:01:18 PM
Surr: Octacosane	87.9	0	25-162		%REC	1	6/29/2005 7:01:18 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.2	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-44
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-12
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 8:10:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	11.0		mg/Kg-dry	1	6/28/2005 9:38:43 PM
TPH-ORO >C28-C35	ND	3.3	11.0		mg/Kg-dry	1	6/28/2005 9:38:43 PM
Surr: o-Terphenyl	71.0	0	47-142		%REC	1	6/28/2005 9:38:43 PM
Surr: Octacosane	85.5	0	25-162		%REC	1	6/28/2005 9:38:43 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.3	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-45
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-13
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:40:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	9520	34	112		mg/Kg-dry	10	6/29/2005 7:51:14 PM
TPH-ORO >C28-C35	7640	34	112		mg/Kg-dry	10	6/29/2005 7:51:14 PM
Surr: o-Terphenyl	126	0	47-142		%REC	10	6/29/2005 7:51:14 PM
Surr: Octacosane	2240	0	25-162	S	%REC	10	6/29/2005 7:51:14 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	16.9	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-46
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-14
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:45:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	151	3.4	11.2		mg/Kg-dry	1	6/28/2005 3:46:56 PM
TPH-ORO >C28-C35	67.9	3.4	11.2		mg/Kg-dry	1	6/28/2005 3:46:56 PM
Surr: o-Terphenyl	85.7	0	47-142		%REC	1	6/28/2005 3:46:56 PM
Surr: Octacosane	138	0	25-162		%REC	1	6/28/2005 3:46:56 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	14.1	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-47
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-15
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 9:50:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	64.3	3.2	10.7		mg/Kg-dry	1	6/29/2005 5:45:54 PM
TPH-ORO >C28-C35	44.4	3.2	10.7		mg/Kg-dry	1	6/29/2005 5:45:54 PM
Surr: o-Terphenyl	76.4	0	47-142		%REC	1	6/29/2005 5:45:54 PM
Surr: Octacosane	109	0	25-162		%REC	1	6/29/2005 5:45:54 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	14.2	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-48
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	*0506159-16*
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:00:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 4:11:40 PM
TPH-ORO >C28-C35	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 4:11:40 PM
Surr: o-Terphenyl	85.3	0	47-142		%REC	1	6/28/2005 4:11:40 PM
Surr: Octacosane	98.6	0	25-162		%REC	1	6/28/2005 4:11:40 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	1.96	0.55	1.10		mg/Kg-dry	5	6/28/2005 1:10:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	18.0	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-49
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-17
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:05:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	10.9		mg/Kg-dry	1	6/28/2005 4:36:28 PM
TPH-ORO >C28-C35	ND	3.3	10.9		mg/Kg-dry	1	6/28/2005 4:36:28 PM
Surr: o-Terphenyl	86.1	0	47-142		%REC	1	6/28/2005 4:36:28 PM
Surr: Octacosane	101	0	25-162		%REC	1	6/28/2005 4:36:28 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.16	0.49	0.979		mg/Kg-dry	5	6/28/2005 1:14:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.7	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-50
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-18
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:10:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.4	11.4		mg/Kg-dry	1	6/28/2005 5:01:12 PM
TPH-ORO >C28-C35	ND	3.4	11.4		mg/Kg-dry	1	6/28/2005 5:01:12 PM
Surr: o-Terphenyl	81.6	0	47-142		%REC	1	6/28/2005 5:01:12 PM
Surr: Octacosane	95.8	0	25-162		%REC	1	6/28/2005 5:01:12 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.23	0.55	1.10		mg/Kg-dry	5	6/28/2005 1:18:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	16.4	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-51
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-19
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:15:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.2	10.6		mg/Kg-dry	1	6/28/2005 5:26:02 PM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	6/28/2005 5:26:02 PM
Surr: o-Terphenyl	84.8	0	47-142		%REC	1	6/28/2005 5:26:02 PM
Surr: Octacosane	100	0	25-162		%REC	1	6/28/2005 5:26:02 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.40	0.49	0.974		mg/Kg-dry	5	6/28/2005 1:21:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.0	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-52
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-20
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:20:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.4	11.2		mg/Kg-dry	1	6/28/2005 6:22:06 PM
TPH-ORO >C28-C35	ND	3.4	11.2		mg/Kg-dry	1	6/28/2005 6:22:06 PM
Surr: o-Terphenyl	81.4	0	47-142		%REC	1	6/28/2005 6:22:06 PM
Surr: Octacosane	96.8	0	25-162		%REC	1	6/28/2005 6:22:06 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	4.66	0.55	1.11		mg/Kg-dry	5	6/28/2005 1:25:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	14.1	0			WT%	1	6/24/2005 2:00:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-53
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-21
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:25:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.4	11.2		mg/Kg-dry	1	6/28/2005 6:46:54 PM
TPH-ORO >C28-C35	ND	3.4	11.2		mg/Kg-dry	1	6/28/2005 6:46:54 PM
Surr: o-Terphenyl	79.1	0	47-142		%REC	1	6/28/2005 6:46:54 PM
Surr: Octacosane	95.0	0	25-162		%REC	1	6/28/2005 6:46:54 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	15.9	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-54
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-22
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:30:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.2	10.6		mg/Kg-dry	1	6/29/2005 3:15:02 PM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	6/29/2005 3:15:02 PM
Surr: o-Terphenyl	66.5	0	47-142		%REC	1	6/29/2005 3:15:02 PM
Surr: Octacosane	81.5	0	25-162		%REC	1	6/29/2005 3:15:02 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.3	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-55
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-23
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:35:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.8	12.7		mg/Kg-dry	1	6/29/2005 3:40:06 PM
TPH-ORO >C28-C35	ND	3.8	12.7		mg/Kg-dry	1	6/29/2005 3:40:06 PM
Surr: o-Terphenyl	62.4	0	47-142		%REC	1	6/29/2005 3:40:06 PM
Surr: Octacosane	78.3	0	25-162		%REC	1	6/29/2005 3:40:06 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	26.6	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-56
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-24
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:40:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.2	10.8		mg/Kg-dry	1	6/29/2005 4:05:14 PM
TPH-ORO >C28-C35	ND	3.2	10.8		mg/Kg-dry	1	6/29/2005 4:05:14 PM
Surr: o-Terphenyl	71.5	0	47-142		%REC	1	6/29/2005 4:05:14 PM
Surr: Octacosane	87.2	0	25-162		%REC	1	6/29/2005 4:05:14 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	14.1	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-57
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-25
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:45:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.2	10.6		mg/Kg-dry	1	6/29/2005 4:30:22 PM
TPH-ORO >C28-C35	ND	3.2	10.6		mg/Kg-dry	1	6/29/2005 4:30:22 PM
Surr: o-Terphenyl	73.0	0	47-142		%REC	1	6/29/2005 4:30:22 PM
Surr: Octacosane	88.3	0	25-162		%REC	1	6/29/2005 4:30:22 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.5	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-58
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-26
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:50:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	455	3.3	11.0		mg/Kg-dry	1	6/28/2005 10:51:35 PM
TPH-ORO >C28-C35	307	3.3	11.0		mg/Kg-dry	1	6/28/2005 10:51:35 PM
Surr: o-Terphenyl	87.5	0	47-142		%REC	1	6/28/2005 10:51:35 PM
Surr: Octacosane	184	0	25-162	S	%REC	1	6/28/2005 10:51:35 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.5	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-59
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-27
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 11:55:00 AM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 3:22:12 PM
TPH-ORO >C28-C35	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 3:22:12 PM
Surr: o-Terphenyl	75.5	0	47-142		%REC	1	6/28/2005 3:22:12 PM
Surr: Octacosane	89.6	0	25-162		%REC	1	6/28/2005 3:22:12 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	14.8	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-60
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-28
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:00:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	537	3.3	10.9		mg/Kg-dry	1	6/28/2005 8:00:46 PM
TPH-ORO >C28-C35	336	3.3	10.9		mg/Kg-dry	1	6/28/2005 8:00:46 PM
Surr: o-Terphenyl	90.2	0	47-142		%REC	1	6/28/2005 8:00:46 PM
Surr: Octacosane	254	0	25-162	S	%REC	1	6/28/2005 8:00:46 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.5	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-61
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-29
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:05:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	153	3.2	10.8		mg/Kg-dry	1	6/28/2005 8:25:19 PM
TPH-ORO >C28-C35	176	3.2	10.8		mg/Kg-dry	1	6/28/2005 8:25:19 PM
Surr: o-Terphenyl	80.2	0	47-142		%REC	1	6/28/2005 8:25:19 PM
Surr: Octacosane	155	0	25-162		%REC	1	6/28/2005 8:25:19 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	15.0	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-62
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-30
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:10:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	14.2	3.4	11.5		mg/Kg-dry	1	6/28/2005 3:46:56 PM
TPH-ORO >C28-C35	ND	3.4	11.5		mg/Kg-dry	1	6/28/2005 3:46:56 PM
Surr: o-Terphenyl	80.0	0	47-142		%REC	1	6/28/2005 3:46:56 PM
Surr: Octacosane	95.0	0	25-162		%REC	1	6/28/2005 3:46:56 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	17.8	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-63
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-31
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:15:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	11.0		mg/Kg-dry	1	6/28/2005 4:11:40 PM
TPH-ORO >C28-C35	ND	3.3	11.0		mg/Kg-dry	1	6/28/2005 4:11:40 PM
Surr: o-Terphenyl	82.5	0	47-142		%REC	1	6/28/2005 4:11:40 PM
Surr: Octacosane	96.6	0	25-162		%REC	1	6/28/2005 4:11:40 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	13.1	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-64
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-32
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:20:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.3	10.9		mg/Kg-dry	1	6/28/2005 4:36:28 PM
TPH-ORO >C28-C35	ND	3.3	10.9		mg/Kg-dry	1	6/28/2005 4:36:28 PM
Surr: o-Terphenyl	64.3	0	47-142		%REC	1	6/28/2005 4:36:28 PM
Surr: Octacosane	75.8	0	25-162		%REC	1	6/28/2005 4:36:28 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.99	0.51	1.03		mg/Kg-dry	5	6/28/2005 1:29:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	11.4	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-65
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-33
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:25:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	134	3.5	11.6		mg/Kg-dry	1	6/28/2005 5:01:12 PM
TPH-ORO >C28-C35	20.4	3.5	11.6		mg/Kg-dry	1	6/28/2005 5:01:12 PM
Surr: o-Terphenyl	87.1	0	47-142		%REC	1	6/28/2005 5:01:12 PM
Surr: Octacosane	115	0	25-162		%REC	1	6/28/2005 5:01:12 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	2.08	0.57	1.14		mg/Kg-dry	5	6/28/2005 1:33:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	18.0	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-66
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-34
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:30:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	278	3.3	11.0		mg/Kg-dry	1	6/28/2005 8:49:47 PM
TPH-ORO >C28-C35	94.2	3.3	11.0		mg/Kg-dry	1	6/28/2005 8:49:47 PM
Surr: o-Terphenyl	89.8	0	47-142		%REC	1	6/28/2005 8:49:47 PM
Surr: Octacosane	143	0	25-162		%REC	1	6/28/2005 8:49:47 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.18	0.49	0.980		mg/Kg-dry	5	6/28/2005 11:21:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.8	0			WT%	1	6/24/2005 4:50:00 PM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-67
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-35
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:35:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	143	3.3	10.9		mg/Kg-dry	1	6/28/2005 5:26:02 PM
TPH-ORO >C28-C35	78.3	3.3	10.9		mg/Kg-dry	1	6/28/2005 5:26:02 PM
Surr: o-Terphenyl	79.4	0	47-142		%REC	1	6/28/2005 5:26:02 PM
Surr: Octacosane	142	0	25-162		%REC	1	6/28/2005 5:26:02 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	11.0	0			WT%	1	6/27/2005 10:45:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-68
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-36
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:40:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 7:11:30 PM
TPH-ORO >C28-C35	ND	3.5	11.5		mg/Kg-dry	1	6/28/2005 7:11:30 PM
Surr: o-Terphenyl	78.1	0	47-142		%REC	1	6/28/2005 7:11:30 PM
Surr: Octacosane	92.1	0	25-162		%REC	1	6/28/2005 7:11:30 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	16.5	0			WT%	1	6/27/2005 10:45:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *30-Jun-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-69
Project Name:	Sii, Smith Services Drilco-Hobbs, REM	**Lab ID:**	0506159-37
Project No:	Drilco Hobbs-110403	**Collection Date:**	6/23/2005 12:45:00 PM
Lab Order:	0506159	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **SCS**	
TPH-DRO C10-C28	ND	3.2	10.8		mg/Kg-dry	1	6/28/2005 7:36:10 PM
TPH-ORO >C28-C35	ND	3.2	10.8		mg/Kg-dry	1	6/28/2005 7:36:10 PM
Surr: o-Terphenyl	83.5	0	47-142		%REC	1	6/28/2005 7:36:10 PM
Surr: Octacosane	98.6	0	25-162		%REC	1	6/28/2005 7:36:10 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	11.7	0			WT%	1	6/27/2005 10:45:00 AM

Qualifiers:

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050628A

Sample ID **MB-19494** Batch ID: **19494** TestNo: **M8015D** Units: **mg/Kg**
SampType **MBLK** Run ID: **GC15_050628A** Analysis Date: **6/28/2005 2:57:27 PM** Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	12.47	0	15	0	83.2	47	142	0		
Surr: Octacosane	14.57	0	15	0	97.2	25	162	0		

Sample ID **LCS-19494** Batch ID: **19494** TestNo: **M8015D** Units: **mg/Kg**
SampType **LCS** Run ID: **GC15_050628A** Analysis Date: **6/28/2005 2:32:26 PM** Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	203.8	10	250	0	81.5	50	114	0		
Surr: o-Terphenyl	14.08	0	15	0	93.8	47	142	0		
Surr: Octacosane	15.14	0	15	0	101	25	162	0		

Sample ID **0506159-35A MS** Batch ID: **19494** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType **MS** Run ID: **GC15_050628A** Analysis Date: **6/28/2005 5:57:25 PM** Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	274.5	10.7	267.5	142.8	49.3	50	114	0		S
Surr: o-Terphenyl	13.92	0	16.05	0	86.7	47	142	0		
Surr: Octacosane	19.08	0	16.05	0	119	25	162	0		

Sample ID **0506159-35A MSD** Batch ID: **19494** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType **MSD** Run ID: **GC15_050628A** Analysis Date: **6/28/2005 6:22:06 PM** Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	296.9	10.7	267.5	142.8	57.6	50	114	7.81	30	
Surr: o-Terphenyl	13.63	0	16.05	0	84.9	47	142	0	0	
Surr: Octacosane	20.7	0	16.05	0	129	25	162	0	0	

Sample ID **CCV1-050628** Batch ID: **R22523** TestNo: **M8015D** Units: **mg/Kg**
SampType **CCV** Run ID: **GC15_050628A** Analysis Date: **6/28/2005 6:46:54 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	506.7	10	500	0	101	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	20.84	0	20	0	104	47	142	0		
Surr: Octacosane	20.97	0	20	0	105	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050628A

Sample ID **CCV2-050628**	Batch ID: **R22523**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050628A**	Analysis Date: **6/28/2005 11:15:48 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	467.2	10	500	0	93.4	85	115	0		
TPH-ORO >C28-C35	11.43	10	0	0	0	0	0	0		
Surr: o-Terphenyl	20.26	0	20	0	101	47	142	0		
Surr: Octacosane	21.57	0	20	0	108	25	162	0		

Sample ID **ICV-050628**	Batch ID: **R22523**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050628A**	Analysis Date: **6/28/2005 2:07:05 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1024	10	1000	0	102	85	115	0		
TPH-ORO >C28-C35	2.156	10	0	0	0	0	0	0		
Surr: o-Terphenyl	28.32	0	25	0	113	47	142	0		
Surr: Octacosane	26.61	0	25	0	106	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050628B

Sample ID **MB-19484**	Batch ID: **19484**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GC15_050628B**	Analysis Date: **6/28/2005 2:57:27 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	11.77	0	15	0	78.4	47	142	0		
Surr: Octacosane	12.72	0	15	0	84.8	25	162	0		

Sample ID **LCS-19484**	Batch ID: **19484**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GC15_050628B**	Analysis Date: **6/28/2005 2:32:26 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	237.9	10	250	0	95.2	50	114	0		
Surr: o-Terphenyl	14.9	0	15	0	99.3	47	142	0		
Surr: Octacosane	15	0	15	0	100	25	162	0		

Sample ID **CCV1-050628**	Batch ID: **R22524**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050628B**	Analysis Date: **6/28/2005 7:11:30 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	543.7	10	500	0	109	85	115	0		
TPH-ORO >C28-C35	ND	10	0	0	0	0	0	0		
Surr: o-Terphenyl	22.5	0	20	0	113	47	142	0		
Surr: Octacosane	22.84	0	20	0	114	25	162	0		

Sample ID **ICV-050628**	Batch ID: **R22524**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050628B**	Analysis Date: **6/28/2005 12:54:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1101	10	1000	0	110	85	115	0		
TPH-ORO >C28-C35	1.326	10	0	0	0	0	0	0		
Surr: o-Terphenyl	31.68	0	25	0	127	47	142	0		
Surr: Octacosane	27.08	0	25	0	108	25	162	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050629A

Sample ID **0506159-25A MS**	Batch ID: **19484**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GC15_050629A**	Analysis Date: **6/29/2005 4:55:30 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	213.9	10.7	267	0	80.1	50	114	0		
Surr: o-Terphenyl	13.24	0	16.02	0	82.7	47	142	0		
Surr: Octacosane	14.26	0	16.02	0	89	25	162	0		

Sample ID **0506159-25A MSD**	Batch ID: **19484**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GC15_050629A**	Analysis Date: **6/29/2005 5:20:41 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	211.7	10.7	267	0	79.3	50	114	1.04	30	
Surr: o-Terphenyl	12.74	0	16.02	0	79.5	47	142	0	0	
Surr: Octacosane	13.83	0	16.02	0	86.3	25	162	0	0	

Sample ID **CCV1-050629**	Batch ID: **R22534**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050629A**	Analysis Date: **6/29/2005 7:26:19 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	507.1	10	500	0	101	85	115	0		
Surr: o-Terphenyl	16.03	0	20	0	80.1	47	142	0		
Surr: Octacosane	15.03	0	20	0	75.2	25	162	0		

Sample ID **CCV2-050629**	Batch ID: **R22534**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050629A**	Analysis Date: **6/29/2005 8:16:07 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	477.6	10	500	0	95.5	85	115	0		
Surr: o-Terphenyl	15.25	0	20	0	76.2	47	142	0		
Surr: Octacosane	15.38	0	20	0	76.9	25	162	0		

Sample ID **ICV-050629**	Batch ID: **R22534**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050629A**	Analysis Date: **6/29/2005 11:47:26 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1040	10	1000	0	104	85	115	0		
Surr: o-Terphenyl	19.42	0	25	0	77.7	47	142	0		
Surr: Octacosane	15.05	0	25	0	60.2	25	162	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID **MB-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 12:11:00 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								

Sample ID **LCS-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:56:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.48	1	50	0	93	80	120	0		

Sample ID **LCSD-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:41:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.32	1	50	0	92.6	80	120	0.323	25	

Sample ID **0506159-34A MS**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:44:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.53	1.04	52.13	3.181	92.7	80	120	0		

Sample ID **0506159-34A MSD**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:48:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.77	0.997	49.86	3.181	89.4	80	120	7.58	25	

Sample ID **0506159-34A PDS**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:52:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.95	0.98	49.01	3.181	89.3	75	125	0		

Sample ID **0506159-34A SD**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **SD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:25:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	3.575	4.9	0	3.181	0	0	0	0	10	

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID CCV1-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 12:00:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190.7	6	200	0	95.4	90	110	0		

Sample ID CCV2-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 12:50:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191.8	6	200	0	95.9	90	110	0		

Sample ID CCV3-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 1:37:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190.4	6	200	0	95.2	90	110	0		

Sample ID CCV4-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 2:51:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	197	6	200	0	98.5	90	110	0		

Sample ID CCV7-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 5:25:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	195.7	6	200	0	97.8	90	110	0		

Sample ID CCV8-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 6:43:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	195.1	6	200	0	97.6	90	110	0		

Sample ID CCV9-050628	Batch ID: R22516	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050628A	Analysis Date: 6/28/2005 7:18:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	196.2	6	200	0	98.1	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL

Work Order: 0506159

Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID **ICV1-050628**	Batch ID: **R22516**	TestNo: **SW6020**		Units: **µg/L**	
SampType **ICV**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:06:00 AM**		Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	98.67	6	100	0	98.7	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050624B

Sample ID **0506159-14A DUP**	Batch ID: **PMOIST-06./27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050624B**	Analysis Date: **6/24/2005 2:00:00 PM**	Prep Date: **6/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	13.8	0	0	14.09	0	0	0	2.07	30	

Sample ID **0506159-16A DUP**	Batch ID: **PMOIST-06./27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050624B**	Analysis Date: **6/24/2005 2:00:00 PM**	Prep Date: **6/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	17.67	0	0	17.96	0	0	0	1.65	30	

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050624C

Sample ID **0506159-32A DUP**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050624C**	Analysis Date: **6/24/2005 4:50:00 PM**	Prep Date: **6/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	11.19	0	0	11.37	0	0	0	1.59	30	

Sample ID **0506111-04B DU**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050624C**	Analysis Date: **6/24/2005 4:50:00 PM**	Prep Date: **6/24/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	12.21	0	0	12.08	0	0	0	1.06	30	

Qualifiers:

ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506159
Project: Sii, Smith Services Drilco-Hobbs, REM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050627A

Sample ID **0506111-02B DUP**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050627A**	Analysis Date: **6/27/2005 10:45:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	13.85	0	0	13.77	0	0	0	0.561	30	

Sample ID **0506164-02A DUP**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050627A**	Analysis Date: **6/27/2005 10:45:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.74	0	0	14.94	0	0	0	1.35	30	

Qualifiers:

ND - Not Detected at the Method Detection 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

APPENDIX F

Laboratory Analytical Data and Chain-of-Custody Record, Soil Samples Collected on September 13, 2005

DHL ANALYTICAL

September 23, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii Drilco Hobbs Facility Rem

Order No.: 0509072

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 1 sample on 9/15/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii Drilco Hobbs Facility Rem (DHL Work Order 0509072) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-6
• Case Narrative	7
• Work Order Sample Summary	8
• Preparation Dates Report	9
• Analytical Dates Report	10
• Sample Results	11
• QC Summary Report	12-14
• Total Number of Pages	14

September 23, 2005

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

8432 1350 4146

№ 21481

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 13 & 14 September 2005 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0504072
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Facility Rem
CLIENT PROJECT #: Sii Drilco Hobbs NM #110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ New Mexico | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
1-TO	01	13 Sept	1600	S	G	2				X		X	

TOTAL

RELINQUISHED BY: (Signature) Kurt W. Lampi — DATE/TIME 14 Sept 2005 0600 — RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FEDEX — DATE/TIME 9.15.5 0640 — RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4 THERM #: 12
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FEDEX
☐ APC DELIVERY
☐ HAND DELIVERED

PRINT FIRM HERE

1 From This portion can be removed for Recipient's records.

Date 7/14/ FedEx Tracking Number 843213504146

Sender's Name K Phone 713 2

Company 3D

Address

Dept./Floor/Suite/Room

City T State TX ZIP 7411

2 Your Internal Billing Reference S

3 To

Recipient's Name C Phone 312 338-6852

Company

Address

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City State ZIP

8432 1350 4146

4a Express Package Service

- [X] FedEx Priority Overnight — Next business morning
- [ ] Fed Next
- [ ] FedEx 2Day — Second business day
- [ ] Fedl Third
- FedEx Envelope rate not available. Minimum charge: (

4b Express Freight Service

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedE Secon

* Call for Confirmation:

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedE Include Large P

6 Special Handling

- [ ] **SATURDAY Delivery** — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **HOLD** at Fed — Not avail FedEx Fi

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Chec

Total Packages	Total Weight	Total Charges
1	2	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com
or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

CUSTODY SEAL

DATE Sept 14 2006

SIGNATURE

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name **SMITH INTERNATIONAL** Date Received: **9/15/05**

Work Order Number **0509072** Received by MLW

Checklist completed by Mark Wot 9.15.5 Reviewed by JD 9/15/05
Signature Date Initials Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem
Lab Order: 0509072

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - DRO/ORO Analysis
Method D2216 - Percent Moisture

LOG IN

The sample was received and log-in performed on 9/15/05. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

PERCENT MOISTURE

For Percent Moisture analysis performed on 9/16/05 the RPD for the sample and sample duplicate (0509065-05A DUP) were slightly above control limits. This is flagged accordingly in the QC summary report. The other sample duplicate (0509071-01A DUP) was within control limits. No further corrective actions were required and no sample results were adversely affected.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

DHL Analytical

Date: *23-Sep-05*

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem
Lab Order: *0509072*

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0509072-01	NM-HB-DRL-1-70		9/13/2005 4:00:00 PM	9/15/2005

DHL Analytical

23-Sep-05

Lab Order: 0509072
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0509072-01A	NM-HB-DRL-1-70	9/13/2005 4:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/21/2005 9:38:01 AM	20255
0509072-01B	NM-HB-DRL-1-70	9/13/2005 4:00:00 PM	Soil	D2216	Percent Moisture	9/16/2005 11:28:00 A	PMOIST-09/16/05C

Lab Order: 0509072
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0509072-01A	NM-HB-DRL-1-70	Soil	M8015D	TPH by GC - Soil DRO+ORO	20255	1	9/21/2005 6:32:32 PM	GC15_050921A
0509072-01B	NM-HB-DRL-1-70	Soil	D2216	Percent Moisture	PMOIST-09/16/05C	1	9/16/2005 4:05:00 PM	PMOIST_050916C

DHL Analytical

Date: *23-Sep-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-1-70
Project Name:	Sii Drilco Hobbs Facility Rem	**Lab ID:**	0509072-01
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	9/13/2005 4:00:00 PM
Lab Order:	0509072	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **DO**	
TPH-DRO C10-C28	ND	3.1	10.4		mg/Kg-dry	1	9/21/2005 6:32:32 PM
TPH-ORO >C28-C35	ND	3.1	10.4		mg/Kg-dry	1	9/21/2005 6:32:32 PM
PERCENT MOISTURE		**D2216**				Analyst: **JAW**	
Percent Moisture	6.95	0			WT%	1	9/16/2005 4:05:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *23-Sep-05*

CLIENT: SMITH INTERNATIONAL
Work Order: 0509072
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050921A

Sample ID **MB-20255**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 5:12:33 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	13.82	0	15	0	92.1	47	142	0		
Surr: Octacosane	17.6	0	15	0	117	25	162	0		

Sample ID **LCS-20255**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 5:39:09 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	127.7	10	250	0	51.1	50	114	0		
Surr: o-Terphenyl	13.38	0	15	0	89.2	47	142	0		
Surr: Octacosane	15.73	0	15	0	105	25	162	0		

Sample ID **0509071-01A MS**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 6:58:52 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	225.8	9.97	249.1	0	90.6	50	114	0		
Surr: o-Terphenyl	13.88	0	14.95	0	92.9	47	142	0		
Surr: Octacosane	15.25	0	14.95	0	102	25	162	0		

Sample ID **0509071-01A MSD**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 7:25:11 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	231.3	9.87	246.8	0	93.7	50	114	2.44	30	
Surr: o-Terphenyl	14.43	0	14.81	0	97.5	47	142	0	0	
Surr: Octacosane	16.02	0	14.81	0	108	25	162	0	0	

Sample ID **CCV1-050921**	Batch ID: **R23568**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 7:51:15 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	486.4	10	500	0	97.3	85	115	0		
TPH-ORO >C28-C35	1.381	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.26	0	20	0	91.3	47	142	0		
Surr: Octacosane	15.58	0	20	0	77.9	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509072
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050921A

Sample ID **ICV-050921**	Batch ID: **R23568**	TestNo: **M8015D**		Units: **mg/Kg**	
SampType **ICV**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 4:44:16 PM**		Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	915.1	10	1000	0	91.5	85	115	0		
TPH-ORO >C28-C35	1.445	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.85	0	25	0	71.4	47	142	0		
Surr: Octacosane	14.63	0	25	0	58.5	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509072
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050916C

Sample ID **0509065-05A DUP**	Batch ID: **PMOIST-09/16/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050916C**	Analysis Date: **9/16/2005 4:05:00 PM**	Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	10.41	0	0	7.306	0	0	0	35.0	30	R

Sample ID **0509071-01A DUP**	Batch ID: **PMOIST-09/16/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050916C**	Analysis Date: **9/16/2005 4:05:00 PM**	Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	5.39	0	0	4.612	0	0	0	15.5	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

APPENDIX G

Laboratory Analytical Data
and Chain-of-Custody Record
Soil Samples Collected on August 30, 2006

DHL ANALYTICAL

September 08, 2006

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0608240

RE: Sii Drilco Hobbs Facility

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 14 sample(s) on 8/31/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Sii Drilco Hobbs Facility (DHL Work Order 0608240) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9
• Work Order Summary	10
• Preparation Dates Report	11-13
• Analytical Dates Report	14-16
• Sample Results	17-30
• QC Summary Report	31-36
• Total Number of Pages	37

September 8, 2006

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

#8432 1350 4823

№ 24996

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281/233-5401 FAX 281/233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 30 August 2006 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0608240
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Facility
CLIENT PROJECT #: Sii Drilco Hobbs NM #110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER R-Rock Caliche

P. Plastic Bag G-4 oz Glass

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ / TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ / GASOLINE MOD 8015 ☐ / DIESEL - MOD 8015 ☐ New Mexico / VOC 8260 ☐ / SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ / 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ / 8082 PCBS ☐ / TCLP - METALS (RCRA) ☐ TCLP VOC ☐ / TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ / TOTAL METALS (RCRA) ☐ OTHER LIST ☐ / LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ / RCI ☐ TOX ☐ FLASHPOINT ☐ / TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ / pH ☐ HEXAVALENT CHROMIUM ☐ / EXPLOSIVES ☐ PECHLORATE ☐ / CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ / As - Total

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐ New Mexico	As - Total	FIELD NOTES
2-12	01	8/30	1030	R	P	1				X		X		X	
2-13	02	8/30	1035	R	P	1				X		X		X	
cw 2-14	03	8/30	1040	R	P	1				X		X		X	
2-15	04	8/30	1045	S	G	1				X		X		X	
2-16	05	8/30	1050	S	G	1				X		X		X	
2-17	06	8/30	1055	S	G	1				X		X		X	
2-18	07	8/30	1100	S	G	1				X		X		X	
2-19	08	8/30	1105	S	G	1				X		X		X	
2-20	09	8/30	1110	S	G	1				X		X		X	
2-21	10	8/30	1130	R	P	1				X		X		X	
2-22	11	8/30	1135	S	G	1				X		X		X	
2-23	12	8/30	1140	S	G	1				X		X		X	
2-24	13	8/30	1145	S	G	1				X		X		X	
2-25	14	8/30	1150	S	G	1				X		X		X	
Blank Line															
TOTAL															

RELINQUISHED BY: (Signature) Clint W. Lampi 8/30/06 DATE/TIME 8/30/06 1300 RECEIVED BY: (Signature) FedEx

RELINQUISHED BY: (Signature) FedEx DATE/TIME 8-31-06 900 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5°C THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

128

200

FedEx Express USA Airbill

FedEx Tracking Number 8432 1350 4823

SOA11

Form I.D. No. 0215 — Recipient's Copy

NO POUCH NEEDED.
See back for peel and stick application instructions.

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 8/30/04 FedEx Tracking Number 843213504823

Sender's Name [illegible] Phone [illegible]

Company [illegible]

Address [illegible]

Dept./Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name Phone 512 388-8222

Company SHEL ANALYTICAL

Address 2300 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City ROUND ROCK State TX ZIP 78664-3201

8432 1350 4823

0244905162

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 _____ x _____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

745 [illegible]

Total Packages	Total Weight	Total Charges
1	50.2	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

CUSTODY SEAL
DATE 30 August 2004
SIGNATURE [illegible]

1330

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 8/31/2006

Work Order Number 0608240 | Received by **DU**

Checklist completed by: [signature] 8-31-06 (Signature / Date) | Reviewed by (JD) (Initials) 08/31/06 (Date)

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

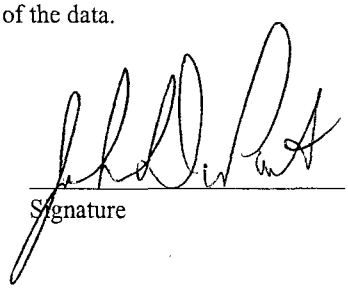
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
Michelle Green – QA Manager
John DuPont – General Manager



Signature

09/08/06

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Si: Dr. Lea Hobbs Facility	Date: 9/8/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 0608240
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		CHAIN-OF-CUSTODY (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			R4-02
R5	OI	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, (prep and cleanup steps)?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs & RPD recovery within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
R7	OI	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			✓		
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Sii Drilco Hobbs facility	Date: 9/8/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 0608240

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND CONTINUING CALIBRATION BLANK (CCB)**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, & SECTION 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?	✓				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	✓				
S11	OI	**PROFICIENCY TEST REPORTS**					
		1) Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		1) Are the laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable. 4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0608240

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - DRO+ORO
Method SW6020 - Metals Analysis
Method D2216 - Percent Moisture

Exception Report R1-01

Samples were received and log-in performed on 8/31/06. A total of 14 sample was received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO+ORO analysis performed on 9/5/06 and 9/7/06 the surrogate recoveries for sample NM-HB-DRL-2-24 and CCV2 were above control limits for Octacosane or o-Terphenyl. These are flagged accordingly. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For Metals analysis performed on 9/6/06 the matrix spike recovery was slightly below control limits for Arsenic. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

Exception Report S9-01

For Metals analysis performed on 9/6/06 the RPD for the serial dilution was slightly above control limits for Arsenic. The PDS was within control limits for this analyte therefore no further corrective actions were taken.

DATA REPORTING

Sample reports include the Sample Quantitation Limit (SQL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting SQL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometime appear that a "J" flagged result is lower than the SQL if the sample result is very near the SQL.

DHL Analytical

Date: *08-Sep-06*

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0608240

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0608240-01	NM-HB-DRL-2-12		8/30/2006 10:30:00 AM	8/31/2006
0608240-02	NM-HB-DRL-2-13		8/30/2006 10:35:00 AM	8/31/2006
0608240-03	NM-HB-DRL-2-14		8/30/2006 10:40:00 AM	8/31/2006
0608240-04	NM-HB-DRL-2-15		8/30/2006 10:45:00 AM	8/31/2006
0608240-05	NM-HB-DRL-2-16		8/30/2006 10:50:00 AM	8/31/2006
0608240-06	NM-HB-DRL-2-17		8/30/2006 10:55:00 AM	8/31/2006
0608240-07	NM-HB-DRL-2-18		8/30/2006 11:00:00 AM	8/31/2006
0608240-08	NM-HB-DRL-2-19		8/30/2006 11:05:00 AM	8/31/2006
0608240-09	NM-HB-DRL-2-20		8/30/2006 11:10:00 AM	8/31/2006
0608240-10	NM-HB-DRL-2-21		8/30/2006 11:30:00 AM	8/31/2006
0608240-11	NM-HB-DRL-2-22		8/30/2006 11:35:00 AM	8/31/2006
0608240-12	NM-HB-DRL-2-23		8/30/2006 11:40:00 AM	8/31/2006
0608240-13	NM-HB-DRL-2-24		8/30/2006 11:45:00 AM	8/31/2006
0608240-14	NM-HB-DRL-2-25		8/30/2006 11:50:00 AM	8/31/2006

DHL Analytical

08-Sep-06

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0608240-01A	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-12	3/30/2006 10:30:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-02A	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-13	3/30/2006 10:35:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-03A	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-14	3/30/2006 10:40:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-04A	NM-HB-DRL-2-15	3/30/2006 10:45:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-15	3/30/2006 10:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-15	3/30/2006 10:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-15	3/30/2006 10:45:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-15	3/30/2006 10:45:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-05A	NM-HB-DRL-2-16	3/30/2006 10:50:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-16	3/30/2006 10:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-16	3/30/2006 10:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-16	3/30/2006 10:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0608240-05A	NM-HB-DRL-2-16	8/30/2006 10:50:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-16	8/30/2006 10:50:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-06A	NM-HB-DRL-2-17	8/30/2006 10:55:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-17	8/30/2006 10:55:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-17	8/30/2006 10:55:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-17	8/30/2006 10:55:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-17	8/30/2006 10:55:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-07A	NM-HB-DRL-2-18	8/30/2006 11:00:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-18	8/30/2006 11:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-18	8/30/2006 11:00:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-18	8/30/2006 11:00:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-18	8/30/2006 11:00:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-08A	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-19	8/30/2006 11:05:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-09A	NM-HB-DRL-2-20	8/30/2006 11:10:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-20	8/30/2006 11:10:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-20	8/30/2006 11:10:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-20	8/30/2006 11:10:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-20	8/30/2006 11:10:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-10A	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402

DHL Analytical

08-Sep-06

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0608240-10A	NM-HB-DRL-2-21	8/30/2006 11:30:00 AM	Rock Caliche	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-11A	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-22	8/30/2006 11:35:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-12A	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-23	8/30/2006 11:40:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-13A	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-24	8/30/2006 11:45:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
0608240-14A	NM-HB-DRL-2-25	8/30/2006 11:50:00 AM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-2-25	8/30/2006 11:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-25	8/30/2006 11:50:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-2-25	8/30/2006 11:50:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402
	NM-HB-DRL-2-25	8/30/2006 11:50:00 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/1/2006 9:00:00 AM	23402

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0608240-01A	NM-HB-DRL-2-12	Rock Caliche	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-12	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	10	9/6/2006 11:25:25 PM	GC15_060905A
	NM-HB-DRL-2-12	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	10	9/6/2006 11:25:25 PM	GC15_060905A
	NM-HB-DRL-2-12	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 1:30:42 AM	GC15_060905A
	NM-HB-DRL-2-12	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 1:30:42 AM	GC15_060905A
	NM-HB-DRL-2-12	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:26:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-12	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:26:00 AM	ICP-MS_060906A
0608240-02A	NM-HB-DRL-2-13	Rock Caliche	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-13	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 8:09:39 PM	GC15_060905A
	NM-HB-DRL-2-13	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 2:20:10 AM	GC15_060905A
	NM-HB-DRL-2-13	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 8:09:39 PM	GC15_060905A
	NM-HB-DRL-2-13	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:30:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-13	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:30:00 AM	ICP-MS_060906A
0608240-03A	NM-HB-DRL-2-14	Rock Caliche	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-14	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 8:58:11 PM	GC15_060905A
	NM-HB-DRL-2-14	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 6:06:08 PM	GC15_060905A
	NM-HB-DRL-2-14	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 8:58:11 PM	GC15_060905A
	NM-HB-DRL-2-14	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:18:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-14	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:18:00 AM	ICP-MS_060906A
0608240-04A	NM-HB-DRL-2-15	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-15	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 9:22:56 PM	GC15_060905A
	NM-HB-DRL-2-15	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 9:22:56 PM	GC15_060905A
	NM-HB-DRL-2-15	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:23:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-15	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:23:00 AM	ICP-MS_060906A
0608240-05A	NM-HB-DRL-2-16	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-16	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 3:09:48 AM	GC15_060905A
	NM-HB-DRL-2-16	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 7:45:06 PM	GC15_060905A
	NM-HB-DRL-2-16	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 7:45:06 PM	GC15_060905A

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0608240-05A	NM-HB-DRL-2-16	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:27:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-16	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:27:00 AM	ICP-MS_060906A
0608240-06A	NM-HB-DRL-2-17	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-17	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 9:47:36 PM	GC15_060905A
	NM-HB-DRL-2-17	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 9:47:36 PM	GC15_060905A
	NM-HB-DRL-2-17	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:17:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-17	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 12:17:00 AM	ICP-MS_060906A
0608240-07A	NM-HB-DRL-2-18	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-18	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 10:12:17 PM	GC15_060905A
	NM-HB-DRL-2-18	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 10:12:17 PM	GC15_060905A
	NM-HB-DRL-2-18	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:31:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-18	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:31:00 AM	ICP-MS_060906A
0608240-08A	NM-HB-DRL-2-19	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-19	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 10:37:13 PM	GC15_060905A
	NM-HB-DRL-2-19	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 6:55:48 PM	GC15_060905A
	NM-HB-DRL-2-19	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 10:37:13 PM	GC15_060905A
	NM-HB-DRL-2-19	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:35:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-19	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:35:00 AM	ICP-MS_060906A
0608240-09A	NM-HB-DRL-2-20	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-20	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 11:02:01 PM	GC15_060905A
	NM-HB-DRL-2-20	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 11:02:01 PM	GC15_060905A
	NM-HB-DRL-2-20	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:39:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-20	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:39:00 AM	ICP-MS_060906A
0608240-10A	NM-HB-DRL-2-21	Rock Caliche	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-21	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 7:20:29 PM	GC15_060905A
	NM-HB-DRL-2-21	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 11:26:36 PM	GC15_060905A
	NM-HB-DRL-2-21	Rock Caliche	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/5/2006 11:26:36 PM	GC15_060905A
	NM-HB-DRL-2-21	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:44:00 AM	ICP-MS_060906A

Lab Order: 0608240
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0608240-10A	NM-HB-DRL-2-21	Rock Caliche	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:44:00 AM	ICP-MS_060906A
0608240-11A	NM-HB-DRL-2-22	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-22	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 6:30:58 PM	GC15_060905A
	NM-HB-DRL-2-22	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 12:41:12 AM	GC15_060905A
	NM-HB-DRL-2-22	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 12:41:12 AM	GC15_060905A
	NM-HB-DRL-2-22	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:48:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-22	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:48:00 AM	ICP-MS_060906A
0608240-12A	NM-HB-DRL-2-23	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-23	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 1:55:32 AM	GC15_060905A
	NM-HB-DRL-2-23	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 8:34:12 PM	GC15_060905A
	NM-HB-DRL-2-23	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 8:34:12 PM	GC15_060905A
	NM-HB-DRL-2-23	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:52:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-23	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:52:00 AM	ICP-MS_060906A
0608240-13A	NM-HB-DRL-2-24	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-24	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 3:34:42 AM	GC15_060905A
	NM-HB-DRL-2-24	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	50	9/7/2006 12:38:49 AM	GC15_060905A
	NM-HB-DRL-2-24	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	500	9/7/2006 12:14:23 AM	GC15_060905A
	NM-HB-DRL-2-24	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	50	9/7/2006 12:38:49 AM	GC15_060905A
	NM-HB-DRL-2-24	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:56:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-24	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 1:56:00 AM	ICP-MS_060906A
0608240-14A	NM-HB-DRL-2-25	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-2-25	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 1:05:50 AM	GC15_060905A
	NM-HB-DRL-2-25	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 1:05:50 AM	GC15_060905A
	NM-HB-DRL-2-25	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 2:24:00 AM	ICP-MS_060906A
	NM-HB-DRL-2-25	Soil	SW6020	Trace Metals: ICP-MS - Solid	23402	5	9/7/2006 2:24:00 AM	ICP-MS_060906A

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-12
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	*0608240-01*
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:30:00 AM
Lab Order:	0608240	**Matrix:**	ROCK CALICHE

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	355	31.0	103		mg/Kg-dry	10	9/6/2006 11:25:25 PM
TPH-ORO >C28-C35	31.5	3.10	10.3		mg/Kg-dry	1	9/6/2006 1:30:42 AM
Surr: o-Terphenyl	66.7	0	47-142		%REC	10	9/6/2006 11:25:25 PM
Surr: o-Terphenyl	58.8	0	47-142		%REC	1	9/6/2006 1:30:42 AM
Surr: Octacosane	105	0	25-162		%REC	10	9/6/2006 11:25:25 PM
Surr: Octacosane	111	0	25-162		%REC	1	9/6/2006 1:30:42 AM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	9.59	0.477	0.955		mg/Kg-dry	5	9/7/2006 12:26:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	3.90	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-13
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-02
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:35:00 AM
Lab Order:	0608240	**Matrix:**	ROCK CALICHE

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	56.0	3.27	10.9		mg/Kg-dry	1	9/6/2006 8:09:39 PM
TPH-ORO >C28-C35	14.8	3.27	10.9		mg/Kg-dry	1	9/6/2006 8:09:39 PM
Surr: o-Terphenyl	65.9	0	47-142		%REC	1	9/6/2006 8:09:39 PM
Surr: Octacosane	81.8	0	25-162		%REC	1	9/6/2006 8:09:39 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	5.65	0.478	0.956		mg/Kg-dry	5	9/7/2006 12:30:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	10.6	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-14
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-03
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:40:00 AM
Lab Order:	0608240	**Matrix:**	ROCK CALICHE

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	3.82	3.13	10.4	J	mg/Kg-dry	1	9/5/2006 8:58:11 PM
TPH-ORO >C28-C35	ND	3.13	10.4		mg/Kg-dry	1	9/5/2006 8:58:11 PM
Surr: o-Terphenyl	56.8	0	47-142		%REC	1	9/5/2006 8:58:11 PM
Surr: Octacosane	76.0	0	25-162		%REC	1	9/5/2006 8:58:11 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	7.33	0.503	1.01		mg/Kg-dry	5	9/7/2006 1:18:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	8.04	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-15
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-04
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:45:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	ND	3.51	11.7		mg/Kg-dry	1	9/5/2006 9:22:56 PM
TPH-ORO >C28-C35	ND	3.51	11.7		mg/Kg-dry	1	9/5/2006 9:22:56 PM
Surr: o-Terphenyl	60.4	0	47-142		%REC	1	9/5/2006 9:22:56 PM
Surr: Octacosane	70.8	0	25-162		%REC	1	9/5/2006 9:22:56 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	5.98	0.541	1.08		mg/Kg-dry	5	9/7/2006 1:23:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	16.8	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-16
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	*0608240-05*
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:50:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	70.9	3.51	11.7		mg/Kg-dry	1	9/6/2006 7:45:06 PM
TPH-ORO >C28-C35	24.1	3.51	11.7		mg/Kg-dry	1	9/6/2006 7:45:06 PM
Surr: o-Terphenyl	61.2	0	47-142		%REC	1	9/6/2006 7:45:06 PM
Surr: Octacosane	75.2	0	25-162		%REC	1	9/6/2006 7:45:06 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	4.61	0.548	1.10		mg/Kg-dry	5	9/7/2006 1:27:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	16.3	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-17
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-06
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 10:55:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	ND	3.41	11.4		mg/Kg-dry	1	9/5/2006 9:47:36 PM
TPH-ORO >C28-C35	ND	3.41	11.4		mg/Kg-dry	1	9/5/2006 9:47:36 PM
Surr: o-Terphenyl	59.0	0	47-142		%REC	1	9/5/2006 9:47:36 PM
Surr: Octacosane	68.7	0	25-162		%REC	1	9/5/2006 9:47:36 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	3.72	0.525	1.05		mg/Kg-dry	5	9/7/2006 12:17:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	17.2	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-18
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-07
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:00:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	ND	3.38	11.3		mg/Kg-dry	1	9/5/2006 10:12:17 PM
TPH-ORO >C28-C35	ND	3.38	11.3		mg/Kg-dry	1	9/5/2006 10:12:17 PM
Surr: o-Terphenyl	57.5	0	47-142		%REC	1	9/5/2006 10:12:17 PM
Surr: Octacosane	68.9	0	25-162		%REC	1	9/5/2006 10:12:17 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	4.93	0.557	1.11		mg/Kg-dry	5	9/7/2006 1:31:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	15.4	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-19
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-08
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:05:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	9.67	3.60	12.0	J	mg/Kg-dry	1	9/5/2006 10:37:13 PM
TPH-ORO >C28-C35	ND	3.60	12.0		mg/Kg-dry	1	9/5/2006 10:37:13 PM
Surr: o-Terphenyl	57.3	0	47-142		%REC	1	9/5/2006 10:37:13 PM
Surr: Octacosane	66.6	0	25-162		%REC	1	9/5/2006 10:37:13 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	5.31	0.571	1.14		mg/Kg-dry	5	9/7/2006 1:35:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	18.2	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-20
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-09
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:10:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	ND	3.30	11.0		mg/Kg-dry	1	9/5/2006 11:02:01 PM
TPH-ORO >C28-C35	ND	3.30	11.0		mg/Kg-dry	1	9/5/2006 11:02:01 PM
Surr: o-Terphenyl	60.5	0	47-142		%REC	1	9/5/2006 11:02:01 PM
Surr: Octacosane	76.3	0	25-162		%REC	1	9/5/2006 11:02:01 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	2.90	0.515	1.03		mg/Kg-dry	5	9/7/2006 1:39:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	15.5	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-21
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-10
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:30:00 AM
Lab Order:	0608240	**Matrix:**	ROCK CALICHE

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	62.5	3.00	10.0		mg/Kg-dry	1	9/5/2006 11:26:36 PM
TPH-ORO >C28-C35	3.36	3.00	10.0	J	mg/Kg-dry	1	9/5/2006 11:26:36 PM
Surr: o-Terphenyl	66.1	0	47-142		%REC	1	9/5/2006 11:26:36 PM
Surr: Octacosane	82.9	0	25-162		%REC	1	9/5/2006 11:26:36 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	7.88	0.490	0.979		mg/Kg-dry	5	9/7/2006 1:44:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	6.31	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-22
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-11
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:35:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	5.03	3.37	11.2	J	mg/Kg-dry	1	9/6/2006 12:41:12 AM
TPH-ORO >C28-C35	ND	3.37	11.2		mg/Kg-dry	1	9/6/2006 12:41:12 AM
Surr: o-Terphenyl	57.0	0	47-142		%REC	1	9/6/2006 12:41:12 AM
Surr: Octacosane	65.0	0	25-162		%REC	1	9/6/2006 12:41:12 AM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	3.26	0.529	1.06		mg/Kg-dry	5	9/7/2006 1:48:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	15.6	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-23
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-12
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:40:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	16.6	3.24	10.8		mg/Kg-dry	1	9/6/2006 8:34:12 PM
TPH-ORO >C28-C35	4.49	3.24	10.8	J	mg/Kg-dry	1	9/6/2006 8:34:12 PM
Surr: o-Terphenyl	62.4	0	47-142		%REC	1	9/6/2006 8:34:12 PM
Surr: Octacosane	72.2	0	25-162		%REC	1	9/6/2006 8:34:12 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	2.57	0.504	1.01		mg/Kg-dry	5	9/7/2006 1:52:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	12.9	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-24
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-13
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:45:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	2290	164	546		mg/Kg-dry	50	9/7/2006 12:38:49 AM
TPH-ORO >C28-C35	232	164	546	J	mg/Kg-dry	50	9/7/2006 12:38:49 AM
Surr: o-Terphenyl	66.3	0	47-142		%REC	50	9/7/2006 12:38:49 AM
Surr: Octacosane	218	0	25-162	S	%REC	50	9/7/2006 12:38:49 AM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	3.26	0.504	1.01		mg/Kg-dry	5	9/7/2006 1:56:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	14.5	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-25
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608240-14
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 11:50:00 AM
Lab Order:	0608240	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	ND	3.40	11.3		mg/Kg-dry	1	9/6/2006 1:05:50 AM
TPH-ORO >C28-C35	ND	3.40	11.3		mg/Kg-dry	1	9/6/2006 1:05:50 AM
Surr: o-Terphenyl	50.3	0	47-142		%REC	1	9/6/2006 1:05:50 AM
Surr: Octacosane	61.8	0	25-162		%REC	1	9/6/2006 1:05:50 AM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	3.45	0.535	1.07		mg/Kg-dry	5	9/7/2006 2:24:00 AM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	15.8	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *08-Sep-06*

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID	LCS-23423	Batch ID:	23423	TestNo:	M8015D	Units:	mg/Kg
SampType:	LCS	Run ID:	GC15_060905A	Analysis Date:	9/5/2006 7:43:42 PM	Prep Date:	9/5/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	148	10.0	250.0	0	59.2	50	114			
Surr: o-Terphenyl	12.1		15.00		80.7	47	142			
Surr: Octacosane	12.9		15.00		86.0	25	162			

Sample ID	0608240-09A-MS	Batch ID:	23423	TestNo:	M8015D	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GC15_060905A	Analysis Date:	9/6/2006 8:58:40 PM	Prep Date:	9/5/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	162	11.2	279.0	0	57.9	50	114			
Surr: o-Terphenyl	12.5		16.74		74.5	47	142			
Surr: Octacosane	13.7		16.74		82.0	25	162			

Sample ID	0608240-09A-MSD	Batch ID:	23423	TestNo:	M8015D	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GC15_060905A	Analysis Date:	9/6/2006 9:23:04 PM	Prep Date:	9/5/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	174	11.2	279.0	0	62.4	50	114	7.48	30	
Surr: o-Terphenyl	11.9		16.74		71.2	47	142	0	0	
Surr: Octacosane	13.4		16.74		80.0	25	162	0	0	

Sample ID	MB-23423	Batch ID:	23423	TestNo:	M8015D	Units:	mg/Kg
SampType:	MBLK	Run ID:	GC15_060905A	Analysis Date:	9/6/2006 11:01:03 PM	Prep Date:	9/5/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	ND	10.0								
TPH-ORO >C28-C35	ND	10.0								
Surr: o-Terphenyl	10.2		15.00		67.9	47	142			
Surr: Octacosane	11.8		15.00		78.6	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID **ICV-060905**	Batch ID: **R27917**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_060905A**	Analysis Date: **9/5/2006 7:09:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	892	10.0	1000	0	89.2	85	115			
TPH-ORO >C28-C35	0.954	10.0	0							
Surr: o-Terphenyl	52.4		60.00		87.4	47	142			
Surr: Octacosane	41.5		60.00		69.2	25	162			

Sample ID **CCV1-060905**	Batch ID: **R27917**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_060905A**	Analysis Date: **9/5/2006 11:51:35 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	462	10.0	500.0	0	92.3	85	115			
TPH-ORO >C28-C35	0.642	10.0	0							
Surr: o-Terphenyl	29.5		30.00		98.5	47	142			
Surr: Octacosane	29.7		30.00		99.0	25	162			

Sample ID **CCV2-060905**	Batch ID: **R27917**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 4:48:53 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	433	10.0	500.0	0	86.6	85	115			
TPH-ORO >C28-C35	56.1	10.0	0							
Surr: o-Terphenyl	27.5		30.00		91.6	47	142			
Surr: Octacosane	28.8		30.00		96.2	25	162			

Sample ID **ICV-060906**	Batch ID: **R27917**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 4:51:22 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	884	10.0	1000	0	88.4	85	115			
TPH-ORO >C28-C35	4.64	10.0	0							
Surr: o-Terphenyl	56.3		60.00		93.8	47	142			
Surr: Octacosane	43.7		60.00		72.9	25	162			

Sample ID **CCV1-060906**	Batch ID: **R27917**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 10:11:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	463	10.0	500.0	0	92.5	85	115			
TPH-ORO >C28-C35	0.883	10.0	0							
Surr: o-Terphenyl	30.0		30.00		100	47	142			
Surr: Octacosane	42.4		30.00		141	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID	CCV2-060906	Batch ID:	R27917	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_060905A	Analysis Date:	9/7/2006 10:22:20 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	455	10.0	500.0	0	91.0	85	115			
TPH-ORO >C28-C35	1.12	10.0	0							
Surr: o-Terphenyl	30.4		20.00		152	47	142			S
Surr: Octacosane	30.2		20.00		151	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_060906A

Sample ID	MB-23402	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg
SampType:	MBLK	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:13:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								

Sample ID	0608240-06A SD	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:22:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	4.37	2.62	0	3.722				16.1	10	R

Sample ID	LCS-23402	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg
SampType:	LCS	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:34:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.5	1.00	50.00	0	91.0	80	120			

Sample ID	LCSD-23402	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg
SampType:	LCSD	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:38:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.4	1.00	50.00	0	90.7	80	120	0.275	25	

Sample ID	0608240-06A MS	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	MS	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:42:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	43.9	1.02	51.16	3.722	78.6	80	120			S

Sample ID	0608240-06A MSD	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:46:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.8	1.06	52.96	3.722	85.1	80	120	10.5	25	

Sample ID	0608240-06A PDS	Batch ID:	23402	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:51:00 AM	Prep Date:	9/1/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.8	1.05	52.50	3.722	89.7	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_060906A

Sample ID	ICV1-060906	Batch ID:	R27937	TestNo:	SW6020	Units:	µg/L
SampType:	ICV	Run ID:	ICP-MS_060906A	Analysis Date:	9/6/2006 7:48:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	106	6.00	100.0	0	106	90	110			

Sample ID	CCV4-060906	Batch ID:	R27937	TestNo:	SW6020	Units:	µg/L
SampType:	CCV	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 12:01:00 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	200	6.00	200.0	0	100	90	110			

Sample ID	CCV5-060906	Batch ID:	R27937	TestNo:	SW6020	Units:	µg/L
SampType:	CCV	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 1:07:00 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	201	6.00	200.0	0	100	90	110			

Sample ID	CCV6-060906	Batch ID:	R27937	TestNo:	SW6020	Units:	µg/L
SampType:	CCV	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 2:12:00 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	199	6.00	200.0	0	99.5	90	110			

Sample ID	CCV7-060906	Batch ID:	R27937	TestNo:	SW6020	Units:	µg/L
SampType:	CCV	Run ID:	ICP-MS_060906A	Analysis Date:	9/7/2006 2:52:00 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	196	6.00	200.0	0	98.2	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_060831B

Sample ID	0608233-02A DUP	Batch ID:	PMOIST-09/01/06B	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_060831B	Analysis Date:	9/1/2006 8:15:00 AM	Prep Date:	8/31/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	58.4	0	0	65.34				11.2	30	N

Sample ID	0608240-04A DUP	Batch ID:	PMOIST-09/01/06B	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_060831B	Analysis Date:	9/1/2006 8:15:00 AM	Prep Date:	8/31/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	16.5	0	0	16.77				1.34	30	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608240
Project: Sii Drilco Hobbs Facility

MQL SUMMARY REPORT

TestNo: M8015D	MDL	MQL
Analyte	mg/Kg	mg/Kg
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: SW6020	MDL	MQL
Analyte	mg/Kg	mg/Kg
Arsenic	0.500	1.00

Qualifiers MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX H

Laboratory Analytical Data
and Chain-of-Custody Record
Soil Samples Collected on September 20, 2006

DHL ANALYTICAL

September 29, 2006

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0609122

RE: Sii Drilco Hobbs Facility Rem.

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 5 sample(s) on 9/21/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of New Mexico Laboratory Certification Number:

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Sii Drilco Hobbs Facility Rem. (DHL Work Order 0609122) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9
• Work Order Summary	10
• Preparation Dates Report	11
• Analytical Dates Report	12
• Sample Results	13-17
• QC Summary Report	18-22
• MQL Summary Report	23
• Total Number of Pages	23

September 29, 2006

Approved: John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

#8432 1350 4889

№ 24410

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 20 Sept. 2006 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0609122
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Facility Rem.
CLIENT PROJECT #: Sii Drilco Hobbs #110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No
Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER
SR - Rock
G - Glass 4oz

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☒ New Mexico | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ | As - Total

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
2-26	01	9/20	1100	SR	G	1				X		As - Total	
2-27	02	9/20	1110	SR	G	1				X		As - Total	
2-28	03	9/20	1120	SR	G	1				X		As - Total	
2-29	04	9/20	1130	S	G	1				X		DIESEL - MOD 8015 ☒ New Mexico	
2-30	05	9/20	1140	S	G	1				X		DIESEL - MOD 8015 ☒ New Mexico	

TOTAL

RELINQUISHED BY: (Signature) Kent W. Lampi DATE/TIME 9/20/06 1200 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx DATE/TIME 9.21.06 900 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.5°C THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

200

FedEx Express USA Airbill

FedEx Tracking Number 8432 1350 4889

Form ID No. 0215 — Recipient's Copy

NO POUCH NEEDED.
See back for peel and stick application instructions.

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 9/25/06 FedEx Tracking Number 843213504889

Sender's Name Kurt Lenz Phone 913 [illegible]

Company 3-D Environmental, Inc.

Address [illegible] 154th St. Dept./Floor/Suite/Room

City [illegible] State OK ZIP 7[illegible]

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name Phone 512 388-8222

Company DHL ANALYTICAL

Address 2300 DOUBLE CREEK DR
To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address Dept./Floor/Suite/Room

City ROUND ROCK State TX ZIP 78664-3801

8432 1350 4889

0224051662

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [x] Credit Card
- [ ] Cash/Check

745 [illegible]

Total Packages	Total Weight	Total Charges
1	22.5	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

CUSTODY SEAL
DATE 20 Sept. 2006 1200
SIGNATURE [illegible]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 9/21/2006

Work Order Number 0609122 | Received by **DU**

Checklist completed by: [signature] Signature | 9.21.06 Date | Reviewed by JD Initials | 09/21/06 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
Michelle Green – QA Manager
John DuPont – General Manager

Signature

10/02/06
Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Sii Dr. Scott Hobbs Facility Rem.	Date: 9/29/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 609122
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		CHAIN-OF-CUSTODY (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			R4-02
R5	OI	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, (prep and cleanup steps)?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs & RPD recovery within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
R7	OI	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			✓		
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Si: Dilco Tubbs facility Rem. | Date: 9/29/06

Reviewer Name: Carlos Castro | Laboratory Work Order: 609122

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND CONTINUING CALIBRATION BLANK (CCB)**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, & SECTION 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?	✓				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**			CRA 9/29/06		
		1) Were percent recoveries within method QC limits?	✓		✓		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	✓				
S11	OI	**PROFICIENCY TEST REPORTS**					
		1) Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		1) Are the laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable. 4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem.
Lab Order: 0609122

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method M8015D - DRO+ORO Analysis
Method D2216 - Percent Moisture

Exception Report R1-01

Samples were received and log-in performed on 9/21/06. A total of 5 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For DRO+ORO analysis peformed on 9/28/06 the surrogate recoveries for sample NM-HB-DRL-2-29 and the matrix spike were above control limits for Octacosane. These are flagged accordingly. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For Metals analysis performed on 9/26/06 the matrix spike recovery was slightly below control limits for Arsenic. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limit for this analyte. No further corrective actions were required and no sample results were adversely affected.

Exception Report S9-01

For Metals analysis performed on 9/26/06 the RPD for the serial dilution was slightly above control limits for Arsenic. This is flagged accordingly in the QC summary report. The PDS was within control limits for this analyte therefore no further corrective actions were taken.

DATA REPORTING

Sample reports include the Sample Quantitation Limit (SQL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting SQL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the SQL if the sample result is very near the SQL.

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem.
Lab Order: 0609122

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recvd
0609122-01	NM-HB-DRL-2-26		9/20/2006 11:00:00 AM	9/21/2006
0609122-02	NM-HB-DRL-2-27		9/20/2006 11:10:00 AM	9/21/2006
0609122-03	NM-HB-DRL-2-28		9/20/2006 11:20:00 AM	9/21/2006
0609122-04	NM-HB-DRL-2-29		9/20/2006 11:30:00 AM	9/21/2006
0609122-05	NM-HB-DRL-2-30		9/20/2006 11:40:00 AM	9/21/2006

Lab Order: 0609122
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem.

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0609122-01A	NM-HB-DRL-2-26	)/20/2006 11:00:00 AM	Rock	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-2-26	)/20/2006 11:00:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
	NM-HB-DRL-2-26	)/20/2006 11:00:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
0609122-02A	NM-HB-DRL-2-27	)/20/2006 11:10:00 AM	Rock	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-2-27	)/20/2006 11:10:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
	NM-HB-DRL-2-27	)/20/2006 11:10:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
0609122-03A	NM-HB-DRL-2-28	)/20/2006 11:20:00 AM	Rock	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-2-28	)/20/2006 11:20:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
	NM-HB-DRL-2-28	)/20/2006 11:20:00 AM	Rock	SW3050B	Soil Prep Total Metals: ICP-MS	9/25/2006 9:58:29 AM	23606
0609122-04A	NM-HB-DRL-2-29	)/20/2006 11:30:00 AM	Soil	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-2-29	)/20/2006 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598
	NM-HB-DRL-2-29	)/20/2006 11:30:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598
0609122-05A	NM-HB-DRL-2-30	)/20/2006 11:40:00 AM	Soil	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-2-30	)/20/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598
	NM-HB-DRL-2-30	)/20/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598

Lab Order: 0609122
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0609122-01A	NM-HB-DRL-2-26	Rock	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-2-26	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 4:59:00 PM	ICP-MS_060926A
	NM-HB-DRL-2-26	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 4:59:00 PM	ICP-MS_060926A
0609122-02A	NM-HB-DRL-2-27	Rock	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-2-27	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 4:51:00 PM	ICP-MS_060926A
	NM-HB-DRL-2-27	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 4:51:00 PM	ICP-MS_060926A
0609122-03A	NM-HB-DRL-2-28	Rock	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-2-28	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 5:03:00 PM	ICP-MS_060926A
	NM-HB-DRL-2-28	Rock	SW6020	Trace Metals: ICP-MS - Solid	23606	5	9/26/2006 5:03:00 PM	ICP-MS_060926A
0609122-04A	NM-HB-DRL-2-29	Soil	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-2-29	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	1	9/28/2006 7:45:15 PM	GC15_060928A
	NM-HB-DRL-2-29	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	1	9/28/2006 7:45:15 PM	GC15_060928A
0609122-05A	NM-HB-DRL-2-30	Soil	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-2-30	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	1	9/28/2006 7:18:41 PM	GC15_060928A
	NM-HB-DRL-2-30	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	1	9/28/2006 7:18:41 PM	GC15_060928A

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-26
Project:	Sii Drilco Hobbs Facility Rem.	**Lab ID:**	0609122-01
Project No:	Sii Drilco Hobbs #110403	**Collection Date:**	9/20/2006 11:00:00 AM
Lab Order:	0609122	**Matrix:**	ROCK

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	7.64	0.511	1.02		mg/Kg-dry	5	9/26/2006 4:59:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	7.72	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

- ND - Not Detected at the SQL
- J - Analyte detected between SQL and RL
- B - Analyte detected in the associated Method Blank
- DF- Dilution Factor
- N - Parameter not NELAC certified
- See Final Page of Report for MQLs and MDLs
- S - Spike Recovery outside control limits
- C - Sample Result or QC discussed in Case Narrative
- RL - Reporting Limit (MQL adjusted for moisture and sample size)
- SQL - Sample Quantitation Limit
- E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-27
Project:	Sii Drilco Hobbs Facility Rem.	**Lab ID:**	0609122-02
Project No:	Sii Drilco Hobbs #110403	**Collection Date:**	9/20/2006 11:10:00 AM
Lab Order:	0609122	**Matrix:**	ROCK

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	6.78	0.510	1.02		mg/Kg-dry	5	9/26/2006 4:51:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	7.45	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-28
Project:	Sii Drilco Hobbs Facility Rem.	**Lab ID:**	0609122-03
Project No:	Sii Drilco Hobbs #110403	**Collection Date:**	9/20/2006 11:20:00 AM
Lab Order:	0609122	**Matrix:**	ROCK

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	8.86	0.499	0.998		mg/Kg-dry	5	9/26/2006 5:03:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	8.92	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-29
Project:	Sii Drilco Hobbs Facility Rem.	**Lab ID:**	0609122-04
Project No:	Sii Drilco Hobbs #110403	**Collection Date:**	9/20/2006 11:30:00 AM
Lab Order:	0609122	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	346	3.45	11.5		mg/Kg-dry	1	9/28/2006 7:45:15 PM
TPH-ORO >C28-C35	163	3.45	11.5		mg/Kg-dry	1	9/28/2006 7:45:15 PM
Surr: o-Terphenyl	71.4	0	47-142		%REC	1	9/28/2006 7:45:15 PM
Surr: Octacosane	193	0	25-162	S	%REC	1	9/28/2006 7:45:15 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	16.3	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-2-30
Project:	Sii Drilco Hobbs Facility Rem.	**Lab ID:**	0609122-05
Project No:	Sii Drilco Hobbs #110403	**Collection Date:**	9/20/2006 11:40:00 AM
Lab Order:	0609122	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	243	3.54	11.8		mg/Kg-dry	1	9/28/2006 7:18:41 PM
TPH-ORO >C28-C35	46.2	3.54	11.8		mg/Kg-dry	1	9/28/2006 7:18:41 PM
Surr: o-Terphenyl	68.9	0	47-142		%REC	1	9/28/2006 7:18:41 PM
Surr: Octacosane	137	0	25-162		%REC	1	9/28/2006 7:18:41 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	18.5	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060928A

Sample ID **MB-23598**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 6:52:03 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10.0								
TPH-ORO >C28-C35	ND	10.0								
Surr: o-Terphenyl	11.9		15.00		79.4	47	142			
Surr: Octacosane	12.9		15.00		86.3	25	162			

Sample ID **0609122-05A-MS**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:05:18 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	413	11.9	297.1	242.5	57.4	50	114			
Surr: o-Terphenyl	12.9		17.83		72.6	47	142			
Surr: Octacosane	52.4		17.83		294	25	162			S

Sample ID **0609122-05A-MSD**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:32:11 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	407	11.9	297.1	242.5	55.3	50	114	1.57	30	
Surr: o-Terphenyl	13.9		17.83		77.9	47	142	0	0	
Surr: Octacosane	28.7		17.83		161	25	162	0	0	

Sample ID **LCS-23598**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:58:59 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	166	10.0	250.0	0	66.2	50	114			
Surr: o-Terphenyl	12.6		15.00		84.0	47	142			
Surr: Octacosane	14.6		15.00		97.6	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060928A

Sample ID	ICV-060928	Batch ID:	R28138	TestNo:	M8015D	Units:	mg/Kg
SampType:	ICV	Run ID:	GC15_060928A	Analysis Date:	9/28/2006 2:25:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	1020	10.0	1000	0	102	85	115			
TPH-ORO >C28-C35	0.990	10.0	0							
Surr: o-Terphenyl	60.7		60.00		101	47	142			
Surr: Octacosane	55.5		60.00		92.4	25	162			

Sample ID	CCV1-060929	Batch ID:	R28138	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_060928A	Analysis Date:	9/28/2006 10:51:54 P	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	533	10.0	500.0	0	107	85	115			
TPH-ORO >C28-C35	5.53	10.0	0							
Surr: o-Terphenyl	32.5		30.00		108	47	142			
Surr: Octacosane	32.9		30.00		110	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_060926A

Sample ID	MB-23606	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg
SampType:	MBLK	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 4:39:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								

Sample ID	LCS-23606	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg
SampType:	LCS	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 4:43:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	49.7	1.00	50.00	0	99.4	80	120			

Sample ID	LCSD-23606	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg
SampType:	LCSD	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 4:47:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	50.0	1.00	50.00	0	100	80	120	0.602	25	

Sample ID	0609122-02A SD	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 4:55:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	7.70	5.10	0	6.776				12.7	10	R

Sample ID	0609122-02A MS	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	MS	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 5:07:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	45.6	1.06	52.97	6.776	73.2	80	120			S

Sample ID	0609122-02A MSD	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 5:12:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.0	1.02	50.97	6.776	94.6	80	120	18.8	25	

Sample ID	0609122-02A PDS	Batch ID:	23606	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 5:16:00 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	58.1	1.02	50.97	6.776	101	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS_060926A

Sample ID	ICV1-060926	Batch ID:	R28158	TestNo:	SW6020	Units:	µg/L
SampType:	ICV	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 4:23:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	105	6.00	100.0	0	105	90	110			

Sample ID	CCV1-060926	Batch ID:	R28158	TestNo:	SW6020	Units:	µg/L
SampType:	CCV	Run ID:	ICP-MS_060926A	Analysis Date:	9/26/2006 5:32:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	210	6.00	200.0	0	105	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_060922B

Sample ID	0609126-01A DUP	Batch ID:	PMOIST-09/25/06B	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_060922B	Analysis Date:	9/25/2006 8:25:00 AM	Prep Date:	9/22/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.5	0	0	13.69				5.86	30	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609122
Project: Sii Drilco Hobbs Facility Rem.

MQL SUMMARY REPORT

TestNo: M8015D	MDL	MQL
Analyte	mg/Kg	mg/Kg
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: SW6020	MDL	MQL
Analyte	mg/Kg	mg/Kg
Arsenic	0.500	1.00

Qualifiers MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX I

Laboratory Analytical Data and Chain-of-Custody Records Backfill and Stockpile Soil Samples Collected on

- June 22, 2005 (Backfill and Soil Stockpile)
- September 13, 2005 (Backfill)
- August 30, 2006 (Soil Stockpile)
- September 20, 2006 (Soil Stockpile)
- October 10, 2006 (Backfill)
- March 14, 2007 (Soil Stockpile)

DHL ANALYTICAL

July 12, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii, Smith Services Drilco-Hobbs, NM

Order No.: 0506160

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 4 samples on 6/24/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii, Smith Services Drilco-Hobbs, NM (DHL Work Order 0506160) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Case Narrative	6-7
• Work Order Sample Summary	8
• Preparation Dates Report	9-10
• TCLP/SPLP Preparation Dates Report	11
• Analytical Dates Report	12-13
• Sample Results	14-20
• QC Summary Report	21-45
• Total Number of Pages	45

July 12, 2005

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 27475

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: Kurt Lampi

DATE: 6/23/05 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 050616O
PROJECT LOCATION OR NAME: SIT, Smith Services Drilco - Hobbs, NM REM
CLIENT PROJECT #: Drilco Hobbs - 110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No
Sample Prefix: NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type (G-Glass 4oz)	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
BF1-1	01	6/22	1600	S	G	2				X		(X) BTEX ☐ MTBE ☐ TRPH 418.1 ☐ GASOLINE MOD 8015 ☐ DIESEL - MOD 8015 ☐ VOC 8260 ☐ SVOC 8270 ☐ 8081 PESTICIDES ☐ 8082 PCBS ☐ TCLP - METALS (RCRA) ☐ CLP PEST ☐ TOTAL METALS (RCRA) ☐ LEAD - TOTAL ☐ TOX ☐ TDS ☐ TSS ☐ pH ☐ HEXAVALENT CHROMIUM ☐ EXPLOSIVES ☐ CHLORIDE ☐ (X) TPH 1005 (X) TPH 1006 ☐ PH 1005 ☐ PAH 8270 ☐ HOLDPAH ☐ 8151 HERBICIDES ☐ HERB ☐ CLP VOC (X) Semi-VOC (X) OTHERLIST ☐ D.W. 200.8 ☐ FLASHPOINT ☐ % MOISTURE ☐ CYANIDE ☐ ANIONS ☐ ALKALINITY ☐ (X) RCI	(X) Delete per K. Lampi 6/24/05 JR
SP1-1	02	6/23	1300	S	G	2				X		X	
SP1-2	03	6/23	1305	S	G	2				X		X	
SP1-3	04	6/23	1310	S	G	2				X		X	
													Run TCLP RCRA 8 per K. Lampi 7/12/05 JR
TOTAL													

RELINQUISHED BY: (Signature) Kurt W. Lampi DATE/TIME 23 June 2005 1320 RECEIVED BY: (Signature) FedEx
RELINQUISHED BY: (Signature) FedEx DATE/TIME 6-24-5 0830 RECEIVED BY: (Signature) Martin Wood
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.0 THERM #: 12
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FEDEX
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx. USA Airbill
Express

FedEx Tracking Number 8432 1358 3857

0215

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 6/29/05 FedEx Tracking Number 843213583857

Sender's Name [illegible] Phone

Company

Address

Dept./Floor/Suite/Room

City State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone

Company

Address

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City ROUND ROCK State TX ZIP

8432 1358 3857

4a Express Package Service

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx 2Day — Second business day. FedEx Envelope rate not available. Minimu

4b Express Freight Service

- [ ] FedEx 1Day Freight* — Next business day

* Call for Confirmation:

5 Packaging

- [ ] FedEx Envelope*

6 Special Handling

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Charges
1	50	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

CUSTODY SEAL
DATE 6-29-05 1:32
SIGNATURE

805-25

...onmental Containers

DHL Analytical

Sample Receipt Checklist

Client Name **SMITH INTERNATIONAL** Date Received: **6/24/05**

Work Order Number **0506160** Received by MLW

Checklist completed by Martin Wet 6.24.5 (Signature / Date) Reviewed by JD (Initials) 6/24/05 (Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM
Lab Order: 0506160

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method SW7471A - Mercury Analysis
Method TX1005 - Total Petroleum Hydrocarbons
Method SW1010 - Ignitibility Analysis
Method Reactivity - Reactivity (cyanide & sulfide)
Method SW9045C - pH of a Soil
Method D2216 - Percent Moisture
Method SW1311/6020 - TCLP Metals
Method SW1311/7470A - TCLP Mercury
Method SW1311/8270C - TCLP Semivolatile Organics
Method SW1311/8260B - TCLP Volatile Organics

LOG IN

Samples were received and log-in performed on 6/24/05. A total of 4 samples were received. On 7/12/05 TCLP RCRA 8 Metals target analyte list was decided for a few samples as per the client. The samples arrived in good condition and were properly packaged.

TPH

For TPH analysis performed on 6/30/05 the surrogate recoveries for samples NM-HB-DRL-SP1-1 and NM-HB-DRL-SP1-2 were above control limits for Octacosane. These are flagged accordingly. No further corrective actions were required and no sample results were adversely affected.

METALS

For Metals analysis performed on 6/28/05 the matrix spike and matrix spike duplicate recoveries were above control limits for Barium. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

TCLP SEMIVOLATILES

For TCLP Semivolatiles analysis performed on 6/29/05 the matrix spike and matrix spike duplicate recoveries were above control limits for Hexachlorobutadiene. These are flagged accordingly in the QC summary

report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for this compound. No further corrective actions were required and no sample results were adversely affected.

TCLP ANALYSIS

All of the samples had results that were below TCLP or RCRA characterization limits and are therefore, non-hazardous under the RCRA guidelines.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

CLIENT: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM
Lab Order: 0506160

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0506160-01	NM-HB-DRL-BF1-1		6/22/2005 4:00:00 PM	6/24/2005
0506160-02	NM-HB-DRL-SP1-1		6/23/2005 1:00:00 PM	6/24/2005
0506160-03	NM-HB-DRL-SP1-2		6/23/2005 1:05:00 PM	6/24/2005
0506160-04	NM-HB-DRL-SP1-3		6/23/2005 1:10:00 PM	6/24/2005

DHL Analytical

12-Jul-05

Lab Order: 0506160
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0506160-01A	NM-HB-DRL-BF1-1	6/22/2005 4:00:00 PM	Soil	TX1005	TX1005 Soil Prep	6/30/2005 10:40:13 A	19523
0506160-01B	NM-HB-DRL-BF1-1	6/22/2005 4:00:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	6/27/2005 9:52:09 AM	19475
	NM-HB-DRL-BF1-1	6/22/2005 4:00:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	6/27/2005 1:13:37 PM	19487
	NM-HB-DRL-BF1-1	6/22/2005 4:00:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A
0506160-02A	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	TX1005	TX1005 Soil Prep	6/30/2005 10:40:13 A	19523
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW5030B	Purge and Trap Water GC/MS	6/30/2005 4:44:24 PM	19533
0506160-02B	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	6/29/2005 9:34:16 AM	19478
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW7470A	Mercury Aq Prep, Total	6/29/2005 9:34:16 AM	19483
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	6/28/2005 1:28:42 PM	19501
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW1010	Ignitability	6/27/2005	IGN_S-06/27/05
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW9045C	pH of Solid (Corrosivity)	6/27/2005	PH_S-06/27/05
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A
0506160-03A	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	TX1005	TX1005 Soil Prep	6/30/2005 10:40:13 A	19523
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW5030B	Purge and Trap Water GC/MS	6/30/2005 4:44:24 PM	19533
0506160-03B	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	6/29/2005 9:34:16 AM	19478
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW7470A	Mercury Aq Prep, Total	6/29/2005 9:34:16 AM	19483
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	6/28/2005 1:28:42 PM	19501
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW1010	Ignitability	6/27/2005	IGN_S-06/27/05
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW9045C	pH of Solid (Corrosivity)	6/27/2005	PH_S-06/27/05

Lab Order: 0506160
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0506160-03B	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A
0506160-04A	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	TX1005	TX1005 Soil Prep	6/30/2005 10:40:13 A	19523
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW5030B	Purge and Trap Water GC/MS	6/30/2005 4:44:24 PM	19533
0506160-04B	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	6/29/2005 9:34:16 AM	19478
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	6/29/2005 9:34:16 AM	19478
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW7470A	Mercury Aq Prep, Total	6/29/2005 9:34:16 AM	19483
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	6/28/2005 1:28:42 PM	19501
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	REACTIVITY	Reactivity Prep	6/30/2005 11:29:13 A	19525
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW1010	Ignitability	6/27/2005	IGN_S-06/27/05
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW9045C	pH of Solid (Corrosivity)	6/27/2005	PH_S-06/27/05
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	D2216	Percent Moisture	6/27/2005	PMOIST-06/27/05A

DHL Analytical

12-Jul-05

Lab Order: 0506160
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

TCLP/SPLP PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0506160-02A	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW1311	TCLP ZHE (Vol extraction)	6/29/2005 2:58:23 PM	19516
0506160-02B	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW1311	TCLP Sample Prep (Organics)	6/27/2005 5:17:00 PM	19498
	NM-HB-DRL-SP1-1	6/23/2005 1:00:00 PM	Soil	SW1311	TCLP Sample Prep (Metals)	6/27/2005 5:17:00 PM	19500
0506160-03A	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW1311	TCLP ZHE (Vol extraction)	6/29/2005 2:58:23 PM	19516
0506160-03B	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW1311	TCLP Sample Prep (Organics)	6/27/2005 5:17:00 PM	19498
	NM-HB-DRL-SP1-2	6/23/2005 1:05:00 PM	Soil	SW1311	TCLP Sample Prep (Metals)	6/27/2005 5:17:00 PM	19500
0506160-04A	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW1311	TCLP ZHE (Vol extraction)	6/29/2005 2:58:23 PM	19516
0506160-04B	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW1311	TCLP Sample Prep (Organics)	6/27/2005 5:17:00 PM	19498
	NM-HB-DRL-SP1-3	6/23/2005 1:10:00 PM	Soil	SW1311	TCLP Sample Prep (Metals)	6/27/2005 5:17:00 PM	19500

Lab Order: 0506160
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506160-01A	NM-HB-DRL-BF1-1	Soil	TX1005	Tx1005 TPH Soil	19523	1	6/30/2005 12:34:59 PM	GC12_050630A
0506160-01B	NM-HB-DRL-BF1-1	Soil	SW6020	Trace Metals: ICP-MS - Soil	19475	5	6/28/2005 11:29:00 AM	ICP-MS2_050628A
	NM-HB-DRL-BF1-1	Soil	SW7471A	Total Mercury: Cold Vapor	19487	1	6/27/2005 4:04:28 PM	CETAC_HG_050627
	NM-HB-DRL-BF1-1	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A
0506160-02A	NM-HB-DRL-SP1-1	Soil	TX1005	Tx1005 TPH Soil	19523	1	6/30/2005 1:13:58 PM	GC12_050630A
	NM-HB-DRL-SP1-1	Soil	SW1311/8260B	TCLP Volatiles	19533	5	6/30/2005 7:45:00 PM	GCMS7_050630A
0506160-02B	NM-HB-DRL-SP1-1	Soil	SW1311/6020	TCLP Metals	19478	1	6/30/2005 5:16:00 PM	ICP-MS2_050630A
	NM-HB-DRL-SP1-1	Soil	SW1311/7470	TCLP Mercury	19483	1	6/30/2005 4:55:05 PM	CETAC_HG_050630
	NM-HB-DRL-SP1-1	Soil	SW1311/8270C	TCLP Semi-Volatiles	19501	1	6/29/2005 1:18:00 PM	GCMS4_050629A
	NM-HB-DRL-SP1-1	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	2	6/30/2005 4:52:00 PM	UV/VIS_2_050630C
	NM-HB-DRL-SP1-1	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	1	6/30/2005 2:59:00 PM	UV/VIS_2_050630B
	NM-HB-DRL-SP1-1	Soil	SW1010	Ignitability	IGN_S-06/27/05	1	6/27/2005 1:50:00 PM	IGN_050627A
	NM-HB-DRL-SP1-1	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-06/27/05	1	6/27/2005 12:50:00 PM	PH_050627A
	NM-HB-DRL-SP1-1	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A
0506160-03A	NM-HB-DRL-SP1-2	Soil	TX1005	Tx1005 TPH Soil	19523	1	6/30/2005 1:08:24 PM	GC12_050630A
	NM-HB-DRL-SP1-2	Soil	SW1311/8260B	TCLP Volatiles	19533	5	6/30/2005 7:22:00 PM	GCMS7_050630A
0506160-03B	NM-HB-DRL-SP1-2	Soil	SW1311/6020	TCLP Metals	19478	1	6/30/2005 5:20:00 PM	ICP-MS2_050630A
	NM-HB-DRL-SP1-2	Soil	SW1311/7470	TCLP Mercury	19483	1	6/30/2005 4:57:07 PM	CETAC_HG_050630
	NM-HB-DRL-SP1-2	Soil	SW1311/8270C	TCLP Semi-Volatiles	19501	1	6/29/2005 1:58:00 PM	GCMS4_050629A
	NM-HB-DRL-SP1-2	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	2	6/30/2005 4:52:00 PM	UV/VIS_2_050630C
	NM-HB-DRL-SP1-2	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	1	6/30/2005 3:00:00 PM	UV/VIS_2_050630B
	NM-HB-DRL-SP1-2	Soil	SW1010	Ignitability	IGN_S-06/27/05	1	6/27/2005 1:50:00 PM	IGN_050627A
	NM-HB-DRL-SP1-2	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-06/27/05	1	6/27/2005 12:50:00 PM	PH_050627A

Lab Order: 0506160
Client: SMITH INTERNATIONAL
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0506160-03B	NM-HB-DRL-SP1-2	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A
0506160-04A	NM-HB-DRL-SP1-3	Soil	TX1005	Tx1005 TPH Soil	19523	1	6/30/2005 12:51:40 PM	GC12_050630A
	NM-HB-DRL-SP1-3	Soil	SW1311/8260B	TCLP Volatiles	19533	5	6/30/2005 6:58:00 PM	GCMS7_050630A
0506160-04B	NM-HB-DRL-SP1-3	Soil	SW1311/6020	TCLP Metals	19478	1	6/30/2005 10:40:00 PM	ICP-MS2_050630A
	NM-HB-DRL-SP1-3	Soil	SW1311/6020	TCLP Metals	19478	1	6/30/2005 6:06:00 PM	ICP-MS2_050630A
	NM-HB-DRL-SP1-3	Soil	SW1311/7470	TCLP Mercury	19483	1	6/30/2005 4:59:10 PM	CETAC_HG_050630
	NM-HB-DRL-SP1-3	Soil	SW1311/8270C	TCLP Semi-Volatiles	19501	1	6/29/2005 2:38:00 PM	GCMS4_050629A
	NM-HB-DRL-SP1-3	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	2	6/30/2005 4:56:00 PM	UV/VIS_2_050630C
	NM-HB-DRL-SP1-3	Soil	REACTIVITY	Reactivity (Cyanide & Sulfide)	19525	1	6/30/2005 3:08:00 PM	UV/VIS_2_050630B
	NM-HB-DRL-SP1-3	Soil	SW1010	Ignitability	IGN_S-06/27/05	1	6/27/2005 1:50:00 PM	IGN_050627A
	NM-HB-DRL-SP1-3	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-06/27/05	1	6/27/2005 12:50:00 PM	PH_050627A
	NM-HB-DRL-SP1-3	Soil	D2216	Percent Moisture	PMOIST-06/27/05A	1	6/27/2005 10:45:00 AM	PMOIST_050627A

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BF1-1
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-01
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/22/2005 4:00:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS (TPH)		**TX1005**				Analyst: **AJR**	
T/R Hydrocarbons: C6-C12	ND	7.2	20.4		mg/Kg-dry	1	6/30/2005 12:34:59 PM
T/R Hydrocarbons: >C12-C28	ND	7.2	20.4		mg/Kg-dry	1	6/30/2005 12:34:59 PM
T/R Hydrocarbons: >C28-C35	ND	7.2	20.4		mg/Kg-dry	1	6/30/2005 12:34:59 PM
T/R Hydrocarbons: C6-C35	ND	7.2	20.4		mg/Kg-dry	1	6/30/2005 12:34:59 PM
Surr: 1-Chlorooctane	112	0	87-147		%REC	1	6/30/2005 12:34:59 PM
Surr: Octacosane	109	0	80-140		%REC	1	6/30/2005 12:34:59 PM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.015	0.0370		mg/Kg-dry	1	6/27/2005 4:04:28 PM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **IH**	
Arsenic	3.73	0.53	1.06		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Barium	353	0.53	2.12		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Cadmium	ND	0.11	0.318		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Chromium	5.20	0.53	2.12		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Lead	3.40	0.11	0.318		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Selenium	0.927	0.16	0.531		mg/Kg-dry	5	6/28/2005 11:29:00 AM
Silver	ND	0.11	0.212		mg/Kg-dry	5	6/28/2005 11:29:00 AM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	8.53	0			WT%	1	6/27/2005 10:45:00 AM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-1
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-02
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:00:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS (TPH)		**TX1005**				Analyst: **AJR**	
T/R Hydrocarbons: C6-C12	ND	7.9	22.5		mg/Kg-dry	1	6/30/2005 1:13:58 PM
T/R Hydrocarbons: >C12-C28	284	7.9	22.5		mg/Kg-dry	1	6/30/2005 1:13:58 PM
T/R Hydrocarbons: >C28-C35	92.9	7.9	22.5		mg/Kg-dry	1	6/30/2005 1:13:58 PM
T/R Hydrocarbons: C6-C35	377	7.9	22.5		mg/Kg-dry	1	6/30/2005 1:13:58 PM
Surr: 1-Chlorooctane	115	0	87-147		%REC	1	6/30/2005 1:13:58 PM
Surr: Octacosane	198	0	80-140	S	%REC	1	6/30/2005 1:13:58 PM
IGNITABILITY		**SW1010**				Analyst: **JBC**	
Ignitability	>100	0			°C	1	6/27/2005 1:50:00 PM
PH		**SW9045C**				Analyst: **JBC**	
pH	7.89	0			pH Units	1	6/27/2005 12:50:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	18.3	0			WT%	1	6/27/2005 10:45:00 AM
REACTIVITY (CYANIDE & SULFIDE)		**REACTIVITY**				Analyst: **SCS**	
Reactive Cyanide	ND	0.047	0.118		mg/Kg-dry	2	6/30/2005 4:52:00 PM
Reactive Sulfide	ND	0.030	0.0296		mg/Kg-dry	1	6/30/2005 2:59:00 PM
TCLP MERCURY		**SW1311/7470A**				Analyst: **LY**	
Mercury	ND	0.00080	0.00200		mg/L	1	6/30/2005 4:55:05 PM
TCLP METALS		**SW1311/6020**				Analyst: **IH**	
Arsenic	0.021	0.020	0.0600	J	mg/L	1	6/30/2005 5:16:00 PM
Barium	1.74	0.030	0.100		mg/L	1	6/30/2005 5:16:00 PM
Cadmium	0.0107	0.0030	0.0100		mg/L	1	6/30/2005 5:16:00 PM
Chromium	0.330	0.020	0.0600		mg/L	1	6/30/2005 5:16:00 PM
Lead	3.39	0.0030	0.0100		mg/L	1	6/30/2005 5:16:00 PM
Selenium	0.020	0.020	0.0600	J	mg/L	1	6/30/2005 5:16:00 PM
Silver	ND	0.010	0.0200		mg/L	1	6/30/2005 5:16:00 PM
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
1,4-Dichlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
2,4,5-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
2,4,6-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
2,4-Dinitrotoluene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
2-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
3&4-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
Hexachlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
Hexachlorobutadiene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
Hexachloroethane	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
Nitrobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM
Pentachlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:18:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-1
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-02
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:00:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
Pyridine	ND	0.10	0.100		mg/L	1	6/29/2005 1:18:00 PM
Surr: 2,4,6-Tribromophenol	116	0	75-144		%REC	1	6/29/2005 1:18:00 PM
Surr: 2-Fluorobiphenyl	115	0	64-136		%REC	1	6/29/2005 1:18:00 PM
Surr: 2-Fluorophenol	99.5	0	40-119		%REC	1	6/29/2005 1:18:00 PM
Surr: 4-Terphenyl-d14	122	0	67-145		%REC	1	6/29/2005 1:18:00 PM
Surr: Nitrobenzene-d5	114	0	53-130		%REC	1	6/29/2005 1:18:00 PM
Surr: Phenol-d6	93.5	0	30-130		%REC	1	6/29/2005 1:18:00 PM
TCLP VOC'S		**SW1311/8260B**				Analyst: **DO**	
1,1-Dichloroethene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:45:00 PM
1,2-Dichloroethane	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:45:00 PM
1,4-Dichlorobenzene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:45:00 PM
2-Butanone	ND	0.025	0.0750		mg/L	5	6/30/2005 7:45:00 PM
Benzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Carbon tetrachloride	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Chlorobenzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Chloroform	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Hexachlorobutadiene	ND	0.0050	0.0150		mg/L	5	6/30/2005 7:45:00 PM
Tetrachloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Trichloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Vinyl chloride	ND	0.00050	0.00500		mg/L	5	6/30/2005 7:45:00 PM
Surr: 1,2-Dichloroethane-d4	104	0	62-139		%REC	5	6/30/2005 7:45:00 PM
Surr: 4-Bromofluorobenzene	110	0	75-125		%REC	5	6/30/2005 7:45:00 PM
Surr: Dibromofluoromethane	102	0	75-125		%REC	5	6/30/2005 7:45:00 PM
Surr: Toluene-d8	108	0	75-125		%REC	5	6/30/2005 7:45:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-2
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-03
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:05:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS (TPH)		**TX1005**				Analyst: **AJR**	
T/R Hydrocarbons: C6-C12	ND	7.4	21.2		mg/Kg-dry	1	6/30/2005 1:08:24 PM
T/R Hydrocarbons: >C12-C28	232	7.4	21.2		mg/Kg-dry	1	6/30/2005 1:08:24 PM
T/R Hydrocarbons: >C28-C35	35.2	7.4	21.2		mg/Kg-dry	1	6/30/2005 1:08:24 PM
T/R Hydrocarbons: C6-C35	267	7.4	21.2		mg/Kg-dry	1	6/30/2005 1:08:24 PM
Surr: 1-Chlorooctane	114	0	87-147		%REC	1	6/30/2005 1:08:24 PM
Surr: Octacosane	161	0	80-140	S	%REC	1	6/30/2005 1:08:24 PM
IGNITABILITY		**SW1010**				Analyst: **JBC**	
Ignitability	>100	0			°C	1	6/27/2005 1:50:00 PM
PH		**SW9045C**				Analyst: **JBC**	
pH	7.77	0			pH Units	1	6/27/2005 12:50:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.5	0			WT%	1	6/27/2005 10:45:00 AM
REACTIVITY (CYANIDE & SULFIDE)		**REACTIVITY**				Analyst: **SCS**	
Reactive Cyanide	ND	0.045	0.111		mg/Kg-dry	2	6/30/2005 4:52:00 PM
Reactive Sulfide	ND	0.028	0.0278		mg/Kg-dry	1	6/30/2005 3:00:00 PM
TCLP MERCURY		**SW1311/7470A**				Analyst: **LY**	
Mercury	ND	0.00080	0.00200		mg/L	1	6/30/2005 4:57:07 PM
TCLP METALS		**SW1311/6020**				Analyst: **IH**	
Arsenic	ND	0.020	0.0600		mg/L	1	6/30/2005 5:20:00 PM
Barium	1.52	0.030	0.100		mg/L	1	6/30/2005 5:20:00 PM
Cadmium	0.0102	0.0030	0.0100		mg/L	1	6/30/2005 5:20:00 PM
Chromium	0.335	0.020	0.0600		mg/L	1	6/30/2005 5:20:00 PM
Lead	3.95	0.0030	0.0100		mg/L	1	6/30/2005 5:20:00 PM
Selenium	ND	0.020	0.0600		mg/L	1	6/30/2005 5:20:00 PM
Silver	ND	0.010	0.0200		mg/L	1	6/30/2005 5:20:00 PM
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
1,4-Dichlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
2,4,5-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
2,4,6-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
2,4-Dinitrotoluene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
2-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
3&4-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
Hexachlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
Hexachlorobutadiene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
Hexachloroethane	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
Nitrobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM
Pentachlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 1:58:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-2
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-03
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:05:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
Pyridine	ND	0.10	0.100		mg/L	1	6/29/2005 1:58:00 PM
Surr: 2,4,6-Tribromophenol	124	0	75-144		%REC	1	6/29/2005 1:58:00 PM
Surr: 2-Fluorobiphenyl	124	0	64-136		%REC	1	6/29/2005 1:58:00 PM
Surr: 2-Fluorophenol	109	0	40-119		%REC	1	6/29/2005 1:58:00 PM
Surr: 4-Terphenyl-d14	127	0	67-145		%REC	1	6/29/2005 1:58:00 PM
Surr: Nitrobenzene-d5	122	0	53-130		%REC	1	6/29/2005 1:58:00 PM
Surr: Phenol-d6	99.8	0	30-130		%REC	1	6/29/2005 1:58:00 PM
TCLP VOC'S		**SW1311/8260B**				Analyst: **DO**	
1,1-Dichloroethene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:22:00 PM
1,2-Dichloroethane	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:22:00 PM
1,4-Dichlorobenzene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:22:00 PM
2-Butanone	ND	0.025	0.0750		mg/L	5	6/30/2005 7:22:00 PM
Benzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Carbon tetrachloride	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Chlorobenzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Chloroform	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Hexachlorobutadiene	ND	0.0050	0.0150		mg/L	5	6/30/2005 7:22:00 PM
Tetrachloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Trichloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Vinyl chloride	ND	0.00050	0.00500		mg/L	5	6/30/2005 7:22:00 PM
Surr: 1,2-Dichloroethane-d4	103	0	62-139		%REC	5	6/30/2005 7:22:00 PM
Surr: 4-Bromofluorobenzene	112	0	75-125		%REC	5	6/30/2005 7:22:00 PM
Surr: Dibromofluoromethane	102	0	75-125		%REC	5	6/30/2005 7:22:00 PM
Surr: Toluene-d8	108	0	75-125		%REC	5	6/30/2005 7:22:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit
J - Analyte detected between MDL and RL
B - Analyte detected in the associated Method Blank
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-3
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-04
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:10:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL PETROLEUM HYDROCARBONS (TPH)		**TX1005**				Analyst: **AJR**	
T/R Hydrocarbons: C6-C12	ND	7.4	21.2		mg/Kg-dry	1	6/30/2005 12:51:40 PM
T/R Hydrocarbons: >C12-C28	42.7	7.4	21.2		mg/Kg-dry	1	6/30/2005 12:51:40 PM
T/R Hydrocarbons: >C28-C35	ND	7.4	21.2		mg/Kg-dry	1	6/30/2005 12:51:40 PM
T/R Hydrocarbons: C6-C35	42.7	7.4	21.2		mg/Kg-dry	1	6/30/2005 12:51:40 PM
Surr: 1-Chlorooctane	110	0	87-147		%REC	1	6/30/2005 12:51:40 PM
Surr: Octacosane	126	0	80-140		%REC	1	6/30/2005 12:51:40 PM
IGNITABILITY		**SW1010**				Analyst: **JBC**	
Ignitability	>100	0			°C	1	6/27/2005 1:50:00 PM
PH		**SW9045C**				Analyst: **JBC**	
pH	7.69	0			pH Units	1	6/27/2005 12:50:00 PM
PERCENT MOISTURE		**D2216**				Analyst: **JBC**	
Percent Moisture	12.8	0			WT%	1	6/27/2005 10:45:00 AM
REACTIVITY (CYANIDE & SULFIDE)		**REACTIVITY**				Analyst: **SCS**	
Reactive Cyanide	0.053	0.044	0.111	J	mg/Kg-dry	2	6/30/2005 4:56:00 PM
Reactive Sulfide	ND	0.028	0.0278		mg/Kg-dry	1	6/30/2005 3:08:00 PM
TCLP MERCURY		**SW1311/7470A**				Analyst: **LY**	
Mercury	ND	0.00080	0.00200		mg/L	1	6/30/2005 4:59:10 PM
TCLP METALS		**SW1311/6020**				Analyst: **IH**	
Arsenic	0.120	0.020	0.0600		mg/L	1	6/30/2005 6:06:00 PM
Barium	2.26	0.030	0.100		mg/L	1	6/30/2005 6:06:00 PM
Cadmium	0.0102	0.0030	0.0100		mg/L	1	6/30/2005 6:06:00 PM
Chromium	0.031	0.020	0.0600	J	mg/L	1	6/30/2005 6:06:00 PM
Lead	1.29	0.0030	0.0100		mg/L	1	6/30/2005 6:06:00 PM
Selenium	ND	0.020	0.0600		mg/L	1	6/30/2005 6:06:00 PM
Silver	ND	0.010	0.0200		mg/L	1	6/30/2005 6:06:00 PM
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
1,4-Dichlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
2,4,5-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
2,4,6-Trichlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
2,4-Dinitrotoluene	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
2-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
3&4-Methylphenol	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
Hexachlorobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
Hexachlorobutadiene	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
Hexachloroethane	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
Nitrobenzene	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM
Pentachlorophenol	ND	0.040	0.0400		mg/L	1	6/29/2005 2:38:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *12-Jul-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-3
Project Name:	Sii, Smith Services Drilco-Hobbs, NM	**Lab ID:**	0506160-04
Project No:	Drilco Hobbs - 110403	**Collection Date:**	6/23/2005 1:10:00 PM
Lab Order:	0506160	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TCLP SVOC'S		**SW1311/8270C**				Analyst: **DL**	
Pyridine	ND	0.10	0.100		mg/L	1	6/29/2005 2:38:00 PM
Surr: 2,4,6-Tribromophenol	114	0	75-144		%REC	1	6/29/2005 2:38:00 PM
Surr: 2-Fluorobiphenyl	115	0	64-136		%REC	1	6/29/2005 2:38:00 PM
Surr: 2-Fluorophenol	103	0	40-119		%REC	1	6/29/2005 2:38:00 PM
Surr: 4-Terphenyl-d14	124	0	67-145		%REC	1	6/29/2005 2:38:00 PM
Surr: Nitrobenzene-d5	116	0	53-130		%REC	1	6/29/2005 2:38:00 PM
Surr: Phenol-d6	95.8	0	30-130		%REC	1	6/29/2005 2:38:00 PM
TCLP VOC'S		**SW1311/8260B**				Analyst: **DO**	
1,1-Dichloroethene	ND	0.0010	0.00500		mg/L	5	6/30/2005 6:58:00 PM
1,2-Dichloroethane	ND	0.0015	0.00500		mg/L	5	6/30/2005 6:58:00 PM
1,4-Dichlorobenzene	ND	0.0015	0.00500		mg/L	5	6/30/2005 6:58:00 PM
2-Butanone	ND	0.025	0.0750		mg/L	5	6/30/2005 6:58:00 PM
Benzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Carbon tetrachloride	ND	0.0010	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Chlorobenzene	ND	0.0010	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Chloroform	ND	0.0015	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Hexachlorobutadiene	ND	0.0050	0.0150		mg/L	5	6/30/2005 6:58:00 PM
Tetrachloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Trichloroethene	ND	0.0015	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Vinyl chloride	ND	0.00050	0.00500		mg/L	5	6/30/2005 6:58:00 PM
Surr: 1,2-Dichloroethane-d4	105	0	62-139		%REC	5	6/30/2005 6:58:00 PM
Surr: 4-Bromofluorobenzene	111	0	75-125		%REC	5	6/30/2005 6:58:00 PM
Surr: Dibromofluoromethane	102	0	75-125		%REC	5	6/30/2005 6:58:00 PM
Surr: Toluene-d8	108	0	75-125		%REC	5	6/30/2005 6:58:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_050630A

Sample ID **MB-19523**	Batch ID: **19523**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 12:29:26 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	ND	20								
T/R Hydrocarbons: >C12-C28	ND	20								
T/R Hydrocarbons: >C28-C35	ND	20								
T/R Hydrocarbons: C6-C35	ND	20								
Surr: 1-Chlorooctane	26.23	0	25	0	105	87	147	0		
Surr: Octacosane	26.37	0	25	0	105	80	140	0		

Sample ID **LCS-19523**	Batch ID: **19523**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 12:23:54 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	206.9	20	250	0	82.7	70	119	0		
Surr: 1-Chlorooctane	30.23	0	25	0	121	104	164	0		
Surr: Octacosane	25.92	0	25	0	104	80	140	0		

Sample ID **0506160-01A MS**	Batch ID: **19523**	TestNo: **TX1005**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 3:01:12 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	243.8	20.6	257.8	0	94.6	70	119	0		
Surr: 1-Chlorooctane	33.93	0	25.78	0	132	104	164	0		
Surr: Octacosane	30.1	0	25.78	0	117	80	140	0		

Sample ID **0506160-01A MSD**	Batch ID: **19523**	TestNo: **TX1005**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 12:46:06 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	248.2	20.6	257.8	0	96.3	70	119	1.78	30	
Surr: 1-Chlorooctane	35.94	0	25.78	0	139	104	164	0	0	
Surr: Octacosane	29.19	0	25.78	0	113	80	140	0	0	

Sample ID **CCV1-050630**	Batch ID: **R22543**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 1:19:34 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	232.8	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C12-C28	264.8	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C28-C35	ND	20	0	0	0	0	0	0		
T/R Hydrocarbons: C6-C35	497.6	20	500	0	99.5	75	125	0		
Surr: 1-Chlorooctane	42.87	0	25	0	171	140	195	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_050630A

Sample ID **CCV1-050630**	Batch ID: **R22543**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 1:19:34 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Surr: Octacosane	31.28	0	25	0	125	85	133	0		

Sample ID **CCV2-050630**	Batch ID: **R22543**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 3:08:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	204.5	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C12-C28	234.5	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C28-C35	0.08171	20	0	0	0	0	0	0		
T/R Hydrocarbons: C6-C35	439	20	500	0	87.8	75	125	0		
Surr: 1-Chlorooctane	37.84	0	25	0	151	140	195	0		
Surr: Octacosane	28.97	0	25	0	116	85	133	0		

Sample ID **ICV-050630**	Batch ID: **R22543**	TestNo: **TX1005**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC12_050630A**	Analysis Date: **6/30/2005 12:18:21 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	486	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C12-C28	568.8	20	0	0	0	0	0	0		
T/R Hydrocarbons: >C28-C35	2.344	20	0	0	0	0	0	0		
T/R Hydrocarbons: C6-C35	1057	20	1000	0	106	75	125	0		
Surr: 1-Chlorooctane	86.66	0	50	0	173	140	195	0		
Surr: Octacosane	56.84	0	50	0	114	85	133	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050627A

Sample ID **MB-19487**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 3:58:21 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.04								

Sample ID **LCS-19487**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **LCS**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:00:23 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.182	0.04	0.2	0	91	77	120	0		

Sample ID **LCSD-19487**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:02:25 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.179	0.04	0.2	0	89.5	77	120	1.66	25	

Sample ID **0506164-04B MS**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:12:37 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1919	0.0415	0.2075	0	92.5	77	120	0		

Sample ID **0506164-04B MSD**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:14:40 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1764	0.0386	0.1928	0	91.5	77	120	8.41	25	

Sample ID **CCV1-050627**	Batch ID: **R22507**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **CCV**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:23:47 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0021	0.04	0.002	0	105	80	120	0		

Sample ID **CCV2-050627**	Batch ID: **R22507**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **CCV**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:41:30 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00218	0.04	0.002	0	109	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050627A

Sample ID **ICV-050627**	Batch ID: **R22507**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **ICV**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 2:50:43 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00383	0.04	0.004	0	95.8	90	110	0		

Sample ID **0506164-04B PDS**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:38:41 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.1876	0.0417	0.2084	0	90	75	125	0		

Sample ID **0506164-04B SD**	Batch ID: **19487**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **SD**	Run ID: **CETAC_HG_050627A**	Analysis Date: **6/27/2005 4:36:38 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.208	0	0	0	0	0	0	10	

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050630D

Sample ID **MB-19483**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **MBLK**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 4:48:57 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.2								

Sample ID **LCS-19483**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **LCS**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 4:51:00 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.1	0.2	2	0	105	77	120	0		

Sample ID **LCSD-19483**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **LCSD**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 4:53:03 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.07	0.2	2	0	104	77	120	1.44	15	

Sample ID **0506184-10B MS**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **MS**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:26:04 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.28	0.2	2	0	114	77	120	0		

Sample ID **0506184-10B MSD**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **MSD**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:28:08 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.17	0.2	2	0	108	77	120	4.94	15	

Sample ID **CCV2-050630**	Batch ID: **R22558**	TestNo: **SW7470A**	Units: **µg/L**
SampType **CCV**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 4:40:47 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.19	0.2	2	0	110	80	120	0		

Sample ID **CCV3-050630**	Batch ID: **R22558**	TestNo: **SW7470A**	Units: **µg/L**
SampType **CCV**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:05:26 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.2	0.2	2	0	110	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050630D

Sample ID **CCV4-050630**	Batch ID: **R22558**	TestNo: **SW7470A**	Units: **µg/L**
SampType **CCV**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:30:13 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.25	0.2	2	0	112	80	120	0		

Sample ID **CCV5-050630**	Batch ID: **R22558**	TestNo: **SW7470A**	Units: **µg/L**
SampType **CCV**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:41:54 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	2.25	0.2	2	0	112	80	120	0		

Sample ID **ICV-050630**	Batch ID: **R22558**	TestNo: **SW7470A**	Units: **µg/L**
SampType **ICV**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 11:13:06 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	4.13	0.2	4	0	103	90	110	0		

Sample ID **0506184-10B PDS**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **PDS**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:38:47 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.98	0.2	2	0	99	75	125	0		

Sample ID **0506184-10B SD**	Batch ID: **19483**	TestNo: **SW7470A**	Units: **µg/L**
SampType **SD**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 5:36:43 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	1	0	0	0	0	0	0	10	

Sample ID **MB-19500 TCLP**	Batch ID: **19483**	TestNo: **SW1311/7470**	Units: **mg/L**
SampType **MBLK**	Run ID: **CETAC_HG_050630D**	Analysis Date: **6/30/2005 4:44:53 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.002								

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID **MB-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 12:11:00 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1								
Barium	ND	2								
Cadmium	ND	0.3								
Chromium	ND	2								
Lead	ND	0.3								
Selenium	ND	0.5								
Silver	ND	0.2								

Sample ID **LCS-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:56:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.48	1	50	0	93	80	120	0		
Barium	51.25	2	50	0	103	80	120	0		
Cadmium	48.7	0.3	50	0	97.4	80	120	0		
Chromium	51.68	2	50	0	103	80	120	0		
Lead	51.55	0.3	50	0	103	80	120	0		
Selenium	44.62	0.5	50	0	89.2	80	120	0		
Silver	51.88	0.2	50	0	104	80	120	0		

Sample ID **LCSD-19475**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:41:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.32	1	50	0	92.6	80	120	0.323	25	
Barium	51.8	2	50	0	104	80	120	1.07	25	
Cadmium	48.98	0.3	50	0	98	80	120	0.563	25	
Chromium	52.02	2	50	0	104	80	120	0.675	25	
Lead	51.18	0.3	50	0	102	80	120	0.730	25	
Selenium	44.58	0.5	50	0	89.2	80	120	0.112	25	
Silver	51.68	0.2	50	0	103	80	120	0.386	25	

Sample ID **0506159-34A MS**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:44:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	51.53	1.04	52.13	3.181	92.7	80	120	0		
Barium	384.4	2.09	52.13	278.1	204	80	120	0		S
Cadmium	47.15	0.313	52.13	0.1426	90.2	80	120	0		
Chromium	59.82	2.09	52.13	8.66	98.1	80	120	0		
Lead	78.45	0.313	52.13	26.46	99.7	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID **0506159-34A MS**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:44:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Selenium	45.19	0.521	52.13	0.5991	85.6	80	120	0		
Silver	49.34	0.209	52.13	0	94.6	80	120	0		

Sample ID **0506159-34A MSD**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:48:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.77	0.997	49.86	3.181	89.4	80	120	7.58	25	
Barium	346.8	1.99	49.86	278.1	138	80	120	10.3	25	S
Cadmium	44.33	0.299	49.86	0.1426	88.6	80	120	6.17	25	
Chromium	55.54	1.99	49.86	8.66	94	80	120	7.40	25	
Lead	71.08	0.299	49.86	26.46	89.5	80	120	9.86	25	
Selenium	41.31	0.499	49.86	0.5991	81.6	80	120	8.98	25	
Silver	46.3	0.199	49.86	0	92.9	80	120	6.36	25	

Sample ID **0506159-34A PDS**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:52:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	46.95	0.98	49.01	3.181	89.3	75	125	0		
Barium	329.6	1.96	49.01	278.1	105	75	125	0		
Cadmium	41.53	0.294	49.01	0.1426	84.5	75	125	0		
Chromium	52.59	1.96	49.01	8.66	89.6	75	125	0		
Lead	75.69	0.294	49.01	26.46	100	75	125	0		
Selenium	40.11	0.49	49.01	0.5991	80.6	75	125	0		
Silver	42.42	0.196	49.01	0	86.6	75	125	0		

Sample ID **0506159-34A SD**	Batch ID: **19475**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **SD**	Run ID: **ICP-MS2_050628A**	Analysis Date: **6/28/2005 11:25:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	3.575	4.9	0	3.181	0	0	0	0	10	
Barium	279.3	9.8	0	278.1	0	0	0	0.440	10	
Cadmium	ND	1.47	0	0.1426	0	0	0	0	10	
Chromium	9.315	9.8	0	8.66	0	0	0	0	10	
Lead	26.53	1.47	0	26.46	0	0	0	0.231	10	
Selenium	ND	2.45	0	0.5991	0	0	0	0	10	
Silver	ND	0.98	0	0	0	0	0	0	10	

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050628A

Sample ID **CCV1-050628** Batch ID: **R22516** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS2_050628A** Analysis Date: **6/28/2005 12:00:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190.7	6	200	0	95.4	90	110	0		
Barium	200.9	10	200	0	100	90	110	0		
Cadmium	196.2	1	200	0	98.1	90	110	0		
Chromium	198.8	6	200	0	99.4	90	110	0		
Lead	200.1	1	200	0	100	90	110	0		
Selenium	191.2	6	200	0	95.6	90	110	0		
Silver	199.6	2	200	0	99.8	90	110	0		

Sample ID **CCV2-050628** Batch ID: **R22516** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS2_050628A** Analysis Date: **6/28/2005 12:50:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191.8	6	200	0	95.9	90	110	0		
Cadmium	192	1	200	0	96	90	110	0		
Chromium	201	6	200	0	101	90	110	0		
Lead	197.8	1	200	0	98.9	90	110	0		

Sample ID **ICV1-050628** Batch ID: **R22516** TestNo: **SW6020** Units: **µg/L**
SampType **ICV** Run ID: **ICP-MS2_050628A** Analysis Date: **6/28/2005 11:06:00 AM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	98.67	6	100	0	98.7	90	110	0		
Barium	94.67	10	100	0	94.7	90	110	0		
Cadmium	98.12	1	100	0	98.1	90	110	0		
Chromium	100	6	100	0	100	90	110	0		
Lead	99.86	1	100	0	99.9	90	110	0		
Selenium	97.7	6	100	0	97.7	90	110	0		
Silver	99.67	2	100	0	99.7	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050630A

Sample ID **MB-19478**	Batch ID: **19478**	TestNo: **SW6020**	Units: **µg/L**
SampType **MBLK**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 5:08:00 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	6								
Barium	ND	10								
Cadmium	ND	1								
Chromium	ND	6								
Lead	ND	1								
Selenium	ND	6								
Silver	ND	2								

Sample ID **LCS-19478**	Batch ID: **19478**	TestNo: **SW6020**	Units: **µg/L**
SampType **LCS**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 5:24:00 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	183.9	6	200	0	92	80	120	0		
Barium	203.7	10	200	0	102	80	120	0		
Cadmium	191.3	1	200	0	95.6	80	120	0		
Chromium	198.2	6	200	0	99.1	80	120	0		
Lead	199.3	1	200	0	99.6	80	120	0		
Selenium	185.1	6	200	0	92.6	80	120	0		
Silver	192.1	2	200	0	96	80	120	0		

Sample ID **LCSD-19478**	Batch ID: **19478**	TestNo: **SW6020**	Units: **µg/L**
SampType **LCSD**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 5:27:00 PM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	182.4	6	200	0	91.2	80	120	0.819	15	
Barium	201.6	10	200	0	101	80	120	1.04	15	
Cadmium	187.5	1	200	0	93.8	80	120	2.01	15	
Chromium	196.6	6	200	0	98.3	80	120	0.811	15	
Lead	197.7	1	200	0	98.8	80	120	0.806	15	
Selenium	183.6	6	200	0	91.8	80	120	0.814	15	
Silver	189.6	2	200	0	94.8	80	120	1.31	15	

Sample ID **0506178-02A MS**	Batch ID: **19478**	TestNo: **SW6020**	Units: **µg/L**
SampType **MS**	Run ID: **ICP-MS2_050630A**	Analysis Date: **7/1/2005 1:24:00 AM**	Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	192.3	6	200	2.409	94.9	80	120	0		
Barium	212	10	200	7.122	102	80	120	0		
Cadmium	174.1	1	200	0	87	80	120	0		
Chromium	215	6	200	20.69	97.2	80	120	0		
Lead	207.4	1	200	0	104	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050630A

Sample ID **0506178-02A MS** Batch ID: **19478** TestNo: **SW6020** Units: **µg/L**
SampType **MS** Run ID: **ICP-MS2_050630A** Analysis Date: **7/1/2005 1:24:00 AM** Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Selenium	216	6	200	19.38	98.3	80	120	0		
Silver	181.9	2	200	0	91	80	120	0		

Sample ID **0506178-02A MSD** Batch ID: **19478** TestNo: **SW6020** Units: **µg/L**
SampType **MSD** Run ID: **ICP-MS2_050630A** Analysis Date: **7/1/2005 1:28:00 AM** Prep Date: **6/29/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190.5	6	200	2.409	94	80	120	0.940	15	
Barium	211.3	10	200	7.122	102	80	120	0.331	15	
Cadmium	174.4	1	200	0	87.2	80	120	0.172	15	
Chromium	213.3	6	200	20.69	96.3	80	120	0.794	15	
Lead	210	1	200	0	105	80	120	1.25	15	
Selenium	212.6	6	200	19.38	96.6	80	120	1.59	15	
Silver	179.9	2	200	0	90	80	120	1.11	15	

Sample ID **CCV1-050630** Batch ID: **R22542** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS2_050630A** Analysis Date: **6/30/2005 4:48:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190.1	6	200	0	95	90	110	0		
Barium	203.1	10	200	0	102	90	110	0		
Cadmium	194.5	1	200	0	97.2	90	110	0		
Chromium	200.2	6	200	0	100	90	110	0		
Lead	202.6	1	200	0	101	90	110	0		
Selenium	195.3	6	200	0	97.6	90	110	0		
Silver	202	2	200	0	101	90	110	0		

Sample ID **CCV2-050630** Batch ID: **R22542** TestNo: **SW6020** Units: **µg/L**
SampType **CCV** Run ID: **ICP-MS2_050630A** Analysis Date: **6/30/2005 5:51:00 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	189.3	6	200	0	94.6	90	110	0		
Barium	208.2	10	200	0	104	90	110	0		
Cadmium	193.3	1	200	0	96.6	90	110	0		
Chromium	201.5	6	200	0	101	90	110	0		
Lead	204.5	1	200	0	102	90	110	0		
Selenium	189.6	6	200	0	94.8	90	110	0		
Silver	198.7	2	200	0	99.4	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050630A

Sample ID **CCV3-050630**	Batch ID: **R22542**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 6:34:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	187.3	6	200	0	93.6	90	110	0		
Barium	203.8	10	200	0	102	90	110	0		
Cadmium	192	1	200	0	96	90	110	0		
Chromium	206.4	6	200	0	103	90	110	0		
Lead	203.9	1	200	0	102	90	110	0		
Selenium	191.8	6	200	0	95.9	90	110	0		
Silver	193.4	2	200	0	96.7	90	110	0		

Sample ID **CCV5-050630**	Batch ID: **R22542**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 10:04:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	192.4	6	200	0	96.2	90	110	0		
Cadmium	196.4	1	200	0	98.2	90	110	0		
Chromium	203.3	6	200	0	102	90	110	0		
Lead	201.8	1	200	0	101	90	110	0		

Sample ID **CCV7-050630**	Batch ID: **R22542**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS2_050630A**	Analysis Date: **6/30/2005 11:58:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium	197.8	6	200	0	98.9	90	110	0		

Sample ID **CCV8-050630**	Batch ID: **R22542**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS2_050630A**	Analysis Date: **7/1/2005 1:05:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	183.3	6	200	0	91.6	90	110	0		
Barium	186	10	200	0	93	90	110	0		
Cadmium	182.9	1	200	0	91.4	90	110	0		
Chromium	187.6	6	200	0	93.8	90	110	0		
Lead	190.4	1	200	0	95.2	90	110	0		
Selenium	189.9	6	200	0	95	90	110	0		
Silver	192.5	2	200	0	96.2	90	110	0		

Sample ID **CCV9-050630**	Batch ID: **R22542**	TestNo: **SW6020**	Units: **µg/L**
SampType **CCV**	Run ID: **ICP-MS2_050630A**	Analysis Date: **7/1/2005 2:00:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	187.5	6	200	0	93.8	90	110	0		
Barium	200.2	10	200	0	100	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050630A

Sample ID CCV9-050630	Batch ID: R22542	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 2:00:00 AM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	192.4	1	200	0	96.2	90	110	0		
Chromium	203.6	6	200	0	102	90	110	0		
Lead	199.2	1	200	0	99.6	90	110	0		
Selenium	193.5	6	200	0	96.8	90	110	0		
Silver	199.1	2	200	0	99.6	90	110	0		

Sample ID ICV1-050630	Batch ID: R22542	TestNo: SW6020	Units: µg/L
SampType ICV	Run ID: ICP-MS2_050630A	Analysis Date: 6/30/2005 3:56:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	97.33	6	100	0	97.3	90	110	0		
Barium	92.43	10	100	0	92.4	90	110	0		
Cadmium	96.36	1	100	0	96.4	90	110	0		
Chromium	97.88	6	100	0	97.9	90	110	0		
Lead	101	1	100	0	101	90	110	0		
Selenium	97.43	6	100	0	97.4	90	110	0		
Silver	103.4	2	100	0	103	90	110	0		

Sample ID ICV2-050630	Batch ID: R22542	TestNo: SW6020	Units: µg/L
SampType ICV	Run ID: ICP-MS2_050630A	Analysis Date: 6/30/2005 8:11:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	96.74	6	100	0	96.7	90	110	0		
Cadmium	96.94	1	100	0	96.9	90	110	0		
Chromium	100.7	6	100	0	101	90	110	0		
Lead	101.1	1	100	0	101	90	110	0		
Selenium	97.44	6	100	0	97.4	90	110	0		
Silver	103.4	2	100	0	103	90	110	0		

Sample ID 0506178-01A PDS	Batch ID: 19478	TestNo: SW6020	Units: µg/L
SampType PDS	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 12:57:00 AM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium	2626	30	1000	1694	93.2	75	125	0		

Sample ID 0506178-01A PDS	Batch ID: 19478	TestNo: SW6020	Units: µg/L
SampType PDS	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 1:40:00 AM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	206.8	6	200	27.01	89.9	75	125	0		
Barium	196.9	10	200	14.08	91.4	75	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050630A

Sample ID 0506178-01A PDS	Batch ID: 19478	TestNo: SW6020	Units: µg/L
SampType PDS	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 1:40:00 AM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	163.6	1	200	0	81.8	75	125	0		
Lead	197.8	1	200	0	98.9	75	125	0		
Selenium	199.3	6	200	20.14	89.6	75	125	0		
Silver	173	2	200	0	86.5	75	125	0		

Sample ID 0506178-01A SD	Batch ID: 19478	TestNo: SW6020	Units: µg/L
SampType SD	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 12:53:00 AM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Chromium	1724	150	0	1694	0	0	0	1.80	10	

Sample ID 0506178-01A SD	Batch ID: 19478	TestNo: SW6020	Units: µg/L
SampType SD	Run ID: ICP-MS2_050630A	Analysis Date: 7/1/2005 1:36:00 AM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	25.56	10	0	27.01	0	0	0	5.52	10	
Barium	ND	50	0	14.08	0	0	0	0	10	
Cadmium	ND	5	0	0	0	0	0	0	10	
Lead	ND	5	0	0	0	0	0	0	10	
Selenium	19.18	10	0	20.14	0	0	0	4.86	10	
Silver	ND	10	0	0	0	0	0	0	10	

Sample ID MB-19500 TCLP	Batch ID: 19478	TestNo: SW1311/6020	Units: mg/L
SampType MBLK	Run ID: ICP-MS2_050630A	Analysis Date: 6/30/2005 5:00:00 PM	Prep Date: 6/29/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.06								
Barium	ND	0.1								
Cadmium	ND	0.01								
Chromium	ND	0.06								
Lead	ND	0.01								
Selenium	ND	0.06								
Silver	ND	0.02								

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050629A

Sample ID **MB-19501**	Batch ID: **19501**	TestNo: **SW1311/8270**	Units: **mg/L**
SampType **MBLK**	Run ID: **GCMS4_050629A**	Analysis Date: **6/29/2005 12:00:00 PM**	Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.04								
2,4,5-Trichlorophenol	ND	0.04								
2,4,6-Trichlorophenol	ND	0.04								
2,4-Dinitrotoluene	ND	0.04								
2-Methylphenol	ND	0.04								
3&4-Methylphenol	ND	0.04								
Hexachlorobenzene	ND	0.04								
Hexachlorobutadiene	ND	0.04								
Hexachloroethane	ND	0.04								
Nitrobenzene	ND	0.04								
Pentachlorophenol	ND	0.04								
Pyridine	ND	0.1								
Surr: 2,4,6-Tribromophenol	0.92	0	0.8	0	115	75	144	0		
Surr: 2-Fluorobiphenyl	0.87	0	0.8	0	109	64	136	0		
Surr: 2-Fluorophenol	0.686	0	0.8	0	85.8	40	119	0		
Surr: 4-Terphenyl-d14	0.92	0	0.8	0	115	67	145	0		
Surr: Nitrobenzene-d5	0.812	0	0.8	0	102	53	130	0		
Surr: Phenol-d6	0.678	0	0.8	0	84.8	30	130	0		

Sample ID **MB TCLP-19498**	Batch ID: **19501**	TestNo: **SW1311/8270**	Units: **mg/L**
SampType **MBLK**	Run ID: **GCMS4_050629A**	Analysis Date: **6/29/2005 12:39:00 PM**	Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.04								
2,4,5-Trichlorophenol	ND	0.04								
2,4,6-Trichlorophenol	ND	0.04								
2,4-Dinitrotoluene	ND	0.04								
2-Methylphenol	ND	0.04								
3&4-Methylphenol	ND	0.04								
Hexachlorobenzene	ND	0.04								
Hexachlorobutadiene	ND	0.04								
Hexachloroethane	ND	0.04								
Nitrobenzene	ND	0.04								
Pentachlorophenol	ND	0.04								
Pyridine	ND	0.1								
Surr: 2,4,6-Tribromophenol	0.86	0	0.8	0	108	75	144	0		
Surr: 2-Fluorobiphenyl	0.95	0	0.8	0	119	64	136	0		
Surr: 2-Fluorophenol	0.824	0	0.8	0	103	40	119	0		
Surr: 4-Terphenyl-d14	0.978	0	0.8	0	122	67	145	0		
Surr: Nitrobenzene-d5	0.922	0	0.8	0	115	53	130	0		
Surr: Phenol-d6	0.762	0	0.8	0	95.2	30	130	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050629A

Sample ID **LCS-19501**	Batch ID: **19501**	TestNo: **SW1311/8270**	Units: **mg/L**
SampType **LCS**	Run ID: **GCMS4_050629A**	Analysis Date: **6/29/2005 11:20:00 AM**	Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.39	0.04	0.4	0	97.5	30	125	0		
2,4,5-Trichlorophenol	0.406	0.04	0.4	0	102	25	175	0		
2,4,6-Trichlorophenol	0.406	0.04	0.4	0	102	39	128	0		
2,4-Dinitrotoluene	0.456	0.04	0.4	0	114	39	139	0		
2-Methylphenol	0.342	0.04	0.4	0	85.5	25	125	0		
3&4-Methylphenol	0.344	0.04	0.4	0	86	33	125	0		
Hexachlorobenzene	0.424	0.04	0.4	0	106	46	133	0		
Hexachlorobutadiene	0.48	0.04	0.4	0	120	25	125	0		
Hexachloroethane	0.396	0.04	0.4	0	99	25	153	0		
Nitrobenzene	0.412	0.04	0.4	0	103	46	133	0		
Pentachlorophenol	0.334	0.04	0.4	0	83.5	28	136	0		
Pyridine	0.304	0.1	0.4	0	76	20	100	0		
Surr: 2,4,6-Tribromophenol	0.994	0	0.8	0	124	75	144	0		
Surr: 2-Fluorobiphenyl	0.922	0	0.8	0	115	64	136	0		
Surr: 2-Fluorophenol	0.732	0	0.8	0	91.5	40	119	0		
Surr: 4-Terphenyl-d14	0.952	0	0.8	0	119	67	145	0		
Surr: Nitrobenzene-d5	0.86	0	0.8	0	108	53	130	0		
Surr: Phenol-d6	0.712	0	0.8	0	89	30	130	0		

Sample ID **0506160-02B MS**	Batch ID: **19501**	TestNo: **SW1311/8270**	Units: **mg/L**
SampType **MS**	Run ID: **GCMS4_050629A**	Analysis Date: **6/29/2005 3:18:00 PM**	Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.43	0.04	0.4	0	108	30	125	0		
2,4,5-Trichlorophenol	0.41	0.04	0.4	0	103	25	175	0		
2,4,6-Trichlorophenol	0.42	0.04	0.4	0	105	39	128	0		
2,4-Dinitrotoluene	0.472	0.04	0.4	0	118	39	139	0		
2-Methylphenol	0.374	0.04	0.4	0	93.5	25	125	0		
3&4-Methylphenol	0.376	0.04	0.4	0	94	33	125	0		
Hexachlorobenzene	0.434	0.04	0.4	0	108	46	133	0		
Hexachlorobutadiene	0.538	0.04	0.4	0	134	25	125	0		S
Hexachloroethane	0.448	0.04	0.4	0	112	25	153	0		
Nitrobenzene	0.452	0.04	0.4	0	113	46	133	0		
Pentachlorophenol	0.316	0.04	0.4	0	79	28	136	0		
Pyridine	0.258	0.1	0.4	0	64.5	20	100	0		
Surr: 2,4,6-Tribromophenol	0.992	0	0.8	0	124	75	144	0		
Surr: 2-Fluorobiphenyl	0.954	0	0.8	0	119	64	136	0		
Surr: 2-Fluorophenol	0.842	0	0.8	0	105	40	119	0		
Surr: 4-Terphenyl-d14	0.966	0	0.8	0	121	67	145	0		
Surr: Nitrobenzene-d5	0.932	0	0.8	0	116	53	130	0		
Surr: Phenol-d6	0.772	0	0.8	0	96.5	30	130	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL

Work Order: 0506160

Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS4_050629A

Sample ID **0506160-02B MSD** Batch ID: **19501** TestNo: **SW1311/8270** Units: **mg/L**

SampType **MSD** Run ID: **GCMS4_050629A** Analysis Date: **6/29/2005 3:58:00 PM** Prep Date: **6/28/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.42	0.04	0.4	0	105	30	125	2.35	20	
2,4,5-Trichlorophenol	0.39	0.04	0.4	0	97.5	25	175	5.00	20	
2,4,6-Trichlorophenol	0.4	0.04	0.4	0	100	39	128	4.88	20	
2,4-Dinitrotoluene	0.462	0.04	0.4	0	116	39	139	2.14	20	
2-Methylphenol	0.362	0.04	0.4	0	90.5	25	125	3.26	20	
3&4-Methylphenol	0.366	0.04	0.4	0	91.5	33	125	2.70	20	
Hexachlorobenzene	0.422	0.04	0.4	0	106	46	133	2.80	20	
Hexachlorobutadiene	0.522	0.04	0.4	0	130	25	125	3.02	20	S
Hexachloroethane	0.444	0.04	0.4	0	111	25	153	0.897	20	
Nitrobenzene	0.44	0.04	0.4	0	110	46	133	2.69	20	
Pentachlorophenol	0.318	0.04	0.4	0	79.5	28	136	0.631	20	
Pyridine	0.276	0.1	0.4	0	69	20	100	6.74	20	
Surr: 2,4,6-Tribromophenol	0.938	0	0.8	0	117	75	144	0	0	
Surr: 2-Fluorobiphenyl	0.904	0	0.8	0	113	64	136	0	0	
Surr: 2-Fluorophenol	0.812	0	0.8	0	102	40	119	0	0	
Surr: 4-Terphenyl-d14	0.916	0	0.8	0	115	67	145	0	0	
Surr: Nitrobenzene-d5	0.894	0	0.8	0	112	53	130	0	0	
Surr: Phenol-d6	0.758	0	0.8	0	94.8	30	130	0	0	

Sample ID **ICV-050629** Batch ID: **R22530** TestNo: **SW1311/8270** Units: **mg/L**

SampType **ICV** Run ID: **GCMS4_050629A** Analysis Date: **6/29/2005 10:39:00 AM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	3.86	0.004	4	0	96.5	75	125	0		
2,4,5-Trichlorophenol	4.35	0.004	4	0	109	75	125	0		
2,4,6-Trichlorophenol	4.41	0.004	4	0	110	75	125	0		
2,4-Dinitrotoluene	4.45	0.004	4	0	111	75	125	0		
2-Methylphenol	3.69	0.004	4	0	92.2	75	125	0		
3&4-Methylphenol	3.73	0.004	4	0	93.2	75	125	0		
Hexachlorobenzene	4.04	0.004	4	0	101	75	125	0		
Hexachlorobutadiene	4.52	0.004	4	0	113	75	125	0		
Hexachloroethane	3.97	0.004	4	0	99.2	75	125	0		
Nitrobenzene	3.89	0.004	4	0	97.2	75	125	0		
Pentachlorophenol	3.63	0.004	4	0	90.8	75	125	0		
Pyridine	3.12	0.01	4	0	78	65	125	0		
Surr: 2,4,6-Tribromophenol	4.31	0	4	0	108	80	120	0		
Surr: 2-Fluorobiphenyl	4.22	0	4	0	106	80	120	0		
Surr: 2-Fluorophenol	3.7	0	4	0	92.5	80	120	0		
Surr: 4-Terphenyl-d14	3.99	0	4	0	99.8	80	120	0		
Surr: Nitrobenzene-d5	4.09	0	4	0	102	80	120	0		
Surr: Phenol-d6	3.67	0	4	0	91.8	80	120	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_050630A

Sample ID **MB-19533** Batch ID: **19533** TestNo: **SW1311/8260** Units: **mg/L**
SampType **MBLK** Run ID: **GCMS7_050630A** Analysis Date: **6/30/2005 6:11:00 PM** Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.001								
1,2-Dichloroethane	ND	0.001								
1,4-Dichlorobenzene	ND	0.001								
2-Butanone	ND	0.015								
Benzene	ND	0.001								
Carbon tetrachloride	ND	0.001								
Chlorobenzene	ND	0.001								
Chloroform	ND	0.001								
Hexachlorobutadiene	ND	0.003								
Tetrachloroethene	ND	0.001								
Trichloroethene	ND	0.001								
Vinyl chloride	ND	0.001								
Surr: 1,2-Dichloroethane-d4	0.05215	0	0.05	0	104	62	139	0		
Surr: 4-Bromofluorobenzene	0.05517	0	0.05	0	110	75	125	0		
Surr: Dibromofluoromethane	0.05164	0	0.05	0	103	75	125	0		
Surr: Toluene-d8	0.05399	0	0.05	0	108	75	125	0		

Sample ID **MB-19516 ZHE** Batch ID: **19533** TestNo: **SW1311/8260** Units: **mg/L**
SampType **MBLK** Run ID: **GCMS7_050630A** Analysis Date: **6/30/2005 6:35:00 PM** Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.005	0	0	0	0	0	0		
1,2-Dichloroethane	ND	0.005	0	0	0	0	0	0		
1,4-Dichlorobenzene	ND	0.005	0	0	0	0	0	0		
2-Butanone	ND	0.075	0	0	0	0	0	0		
Benzene	ND	0.005	0	0	0	0	0	0		
Carbon tetrachloride	ND	0.005	0	0	0	0	0	0		
Chlorobenzene	ND	0.005	0	0	0	0	0	0		
Chloroform	ND	0.005	0	0	0	0	0	0		
Hexachlorobutadiene	ND	0.015	0	0	0	0	0	0		
Tetrachloroethene	ND	0.005	0	0	0	0	0	0		
Trichloroethene	ND	0.005	0	0	0	0	0	0		
Vinyl chloride	ND	0.005	0	0	0	0	0	0		
Surr: 1,2-Dichloroethane-d4	0.2619	0	0.25	0	105	62	139	0		
Surr: 4-Bromofluorobenzene	0.279	0	0.25	0	112	75	125	0		
Surr: Dibromofluoromethane	0.257	0	0.25	0	103	75	125	0		
Surr: Toluene-d8	0.2712	0	0.25	0	108	75	125	0		

Sample ID **LCS-19533** Batch ID: **19533** TestNo: **SW1311/8260** Units: **mg/L**
SampType **LCS** Run ID: **GCMS7_050630A** Analysis Date: **6/30/2005 5:23:00 PM** Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_050630A

Sample ID **LCS-19533**	Batch ID: **19533**	TestNo: **SW1311/8260**	Units: **mg/L**
SampType **LCS**	Run ID: **GCMS7_050630A**	Analysis Date: **6/30/2005 5:23:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.02027	0.001	0.0232	0	87.4	75	125	0		
1,2-Dichloroethane	0.02118	0.001	0.0232	0	91.3	75	125	0		
1,4-Dichlorobenzene	0.02662	0.001	0.0232	0	115	75	125	0		
2-Butanone	0.02409	0.015	0.0232	0	104	50	150	0		
Benzene	0.02105	0.001	0.0232	0	90.7	75	125	0		
Carbon tetrachloride	0.0236	0.001	0.0232	0	102	75	125	0		
Chlorobenzene	0.02358	0.001	0.0232	0	102	75	125	0		
Chloroform	0.02084	0.001	0.0232	0	89.8	75	125	0		
Hexachlorobutadiene	0.02858	0.003	0.0232	0	123	75	125	0		
Tetrachloroethene	0.02276	0.001	0.0232	0	98.1	75	125	0		
Trichloroethene	0.02001	0.001	0.0232	0	86.2	75	125	0		
Vinyl chloride	0.02276	0.001	0.0232	0	98.1	75	125	0		
Surr: 1,2-Dichloroethane-d4	0.0521	0	0.05	0	104	62	139	0		
Surr: 4-Bromofluorobenzene	0.05241	0	0.05	0	105	75	125	0		
Surr: Dibromofluoromethane	0.05085	0	0.05	0	102	75	125	0		
Surr: Toluene-d8	0.05314	0	0.05	0	106	75	125	0		

Sample ID **0506160-02A MS**	Batch ID: **19533**	TestNo: **SW1311/8260**	Units: **mg/L**
SampType **MS**	Run ID: **GCMS7_050630A**	Analysis Date: **6/30/2005 8:55:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0981	0.005	0.116	0	84.6	75	125	0		
1,2-Dichloroethane	0.106	0.005	0.116	0	91.4	75	125	0		
1,4-Dichlorobenzene	0.13	0.005	0.116	0	112	75	125	0		
2-Butanone	0.109	0.075	0.116	0	93.9	50	150	0		
Benzene	0.1063	0.005	0.116	0	91.6	75	125	0		
Carbon tetrachloride	0.1132	0.005	0.116	0	97.6	75	125	0		
Chlorobenzene	0.117	0.005	0.116	0	101	75	125	0		
Chloroform	0.1056	0.005	0.116	0	91	75	125	0		
Hexachlorobutadiene	0.1139	0.015	0.116	0	98.2	75	125	0		
Tetrachloroethene	0.1088	0.005	0.116	0	93.8	75	125	0		
Trichloroethene	0.09955	0.005	0.116	0	85.8	75	125	0		
Vinyl chloride	0.1146	0.005	0.116	0	98.8	75	125	0		
Surr: 1,2-Dichloroethane-d4	0.2619	0	0.25	0	105	62	139	0		
Surr: 4-Bromofluorobenzene	0.2608	0	0.25	0	104	75	125	0		
Surr: Dibromofluoromethane	0.2556	0	0.25	0	102	75	125	0		
Surr: Toluene-d8	0.2667	0	0.25	0	107	75	125	0		

Sample ID **0506160-02A MSD**	Batch ID: **19533**	TestNo: **SW1311/8260**	Units: **mg/L**
SampType **MSD**	Run ID: **GCMS7_050630A**	Analysis Date: **6/30/2005 9:19:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_050630A

Sample ID **0506160-02A MSD**	Batch ID: **19533**	TestNo: **SW1311/8260**	Units: **mg/L**
SampType **MSD**	Run ID: **GCMS7_050630A**	Analysis Date: **6/30/2005 9:19:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.09675	0.005	0.116	0	83.4	75	125	1.39	20	
1,2-Dichloroethane	0.107	0.005	0.116	0	92.2	75	125	0.845	20	
1,4-Dichlorobenzene	0.1304	0.005	0.116	0	112	75	125	0.307	20	
2-Butanone	0.1073	0.075	0.116	0	92.5	50	150	1.53	20	
Benzene	0.1062	0.005	0.116	0	91.6	75	125	0.0470	20	
Carbon tetrachloride	0.115	0.005	0.116	0	99.2	75	125	1.58	20	
Chlorobenzene	0.1174	0.005	0.116	0	101	75	125	0.341	20	
Chloroform	0.105	0.005	0.116	0	90.6	75	125	0.522	20	
Hexachlorobutadiene	0.1206	0.015	0.116	0	104	75	125	5.71	20	
Tetrachloroethene	0.1087	0.005	0.116	0	93.7	75	125	0.138	20	
Trichloroethene	0.09975	0.005	0.116	0	86	75	125	0.201	20	
Vinyl chloride	0.1152	0.005	0.116	0	99.4	75	125	0.566	20	
Surr: 1,2-Dichloroethane-d4	0.2615	0	0.25	0	105	62	139	0	0	
Surr: 4-Bromofluorobenzene	0.2618	0	0.25	0	105	75	125	0	0	
Surr: Dibromofluoromethane	0.2582	0	0.25	0	103	75	125	0	0	
Surr: Toluene-d8	0.2654	0	0.25	0	106	75	125	0	0	

Sample ID **ICV-050630**	Batch ID: **R22559**	TestNo: **SW1311/8260**	Units: **mg/L**
SampType **ICV**	Run ID: **GCMS7_050630A**	Analysis Date: **6/30/2005 4:50:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.03903	0.001	0.0464	0	84.1	75	125	0		
1,2-Dichloroethane	0.04127	0.001	0.0464	0	88.9	75	125	0		
1,4-Dichlorobenzene	0.05116	0.001	0.0464	0	110	75	125	0		
2-Butanone	0.04658	0.015	0.0464	0	100	60	140	0		
Benzene	0.04059	0.001	0.0464	0	87.5	75	125	0		
Carbon tetrachloride	0.04581	0.001	0.0464	0	98.7	75	125	0		
Chlorobenzene	0.04518	0.001	0.0464	0	97.4	75	125	0		
Chloroform	0.04066	0.001	0.0464	0	87.6	75	125	0		
Hexachlorobutadiene	0.05369	0.003	0.0464	0	116	75	125	0		
Tetrachloroethene	0.04426	0.001	0.0464	0	95.4	75	125	0		
Trichloroethene	0.03945	0.001	0.0464	0	85	75	125	0		
Vinyl chloride	0.04237	0.001	0.0464	0	91.3	75	125	0		
Surr: 1,2-Dichloroethane-d4	0.05226	0	0.05	0	105	62	139	0		
Surr: 4-Bromofluorobenzene	0.05233	0	0.05	0	105	75	125	0		
Surr: Dibromofluoromethane	0.05103	0	0.05	0	102	75	125	0		
Surr: Toluene-d8	0.05304	0	0.05	0	106	75	125	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: IGN_050627A

Sample ID	MBLK-050627	Batch ID:	IGN_S-06/27/05	TestNo:	SW1010	Units:	°C
SampType	MBLK	Run ID:	IGN_050627A	Analysis Date:	6/27/2005 1:50:00 PM	Prep Date:	6/27/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	> 100	0								

Sample ID	CCV-050627	Batch ID:	IGN_S-06/27/05	TestNo:	SW1010	Units:	°C
SampType	CCV	Run ID:	IGN_050627A	Analysis Date:	6/27/2005 1:50:00 PM	Prep Date:	6/27/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	65	0	66	0	98.5	90	110	0		

Sample ID	ICV-050627	Batch ID:	IGN_S-06/27/05	TestNo:	SW1010	Units:	°C
SampType	ICV	Run ID:	IGN_050627A	Analysis Date:	6/27/2005 1:50:00 PM	Prep Date:	6/27/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	66	0	66	0	100	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: PH_050627A

Sample ID **0506160-02B DUP**	Batch ID: **PH_S-06/27/05**	TestNo: **SW9045C**	Units: **pH Units**
SampType **DUP**	Run ID: **PH_050627A**	Analysis Date: **6/27/2005 12:50:00 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
pH	7.792	0	0	7.891	0	0	0	1.26	15	

Sample ID **CCV-050627**	Batch ID: **PH_S-06/27/05**	TestNo: **SW9045C**	Units: **pH Units**
SampType **CCV**	Run ID: **PH_050627A**	Analysis Date: **6/27/2005 12:50:00 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
pH	7.026	0	7	0	100	97.1	102.9	0		

Sample ID **ICV**	Batch ID: **PH_S-06/27/05**	TestNo: **SW9045C**	Units: **pH Units**
SampType **ICV**	Run ID: **PH_050627A**	Analysis Date: **6/27/2005 12:50:00 PM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
pH	9.997	0	10	0	100	99	101	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050627A

Sample ID **0506111-02B DUP**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050627A**	Analysis Date: **6/27/2005 10:45:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	13.85	0	0	13.77	0	0	0	0.561	30	

Sample ID **0506164-02A DUP**	Batch ID: **PMOIST-06/27/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050627A**	Analysis Date: **6/27/2005 10:45:00 AM**	Prep Date: **6/27/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.74	0	0	14.94	0	0	0	1.35	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_050630B

Sample ID **MB-19525**	Batch ID: **19525**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **UV/VIS_2_050630B**	Analysis Date: **6/30/2005 2:59:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	ND	0.025								

Sample ID **LCS-19525 S**	Batch ID: **19525**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **LCS**	Run ID: **UV/VIS_2_050630B**	Analysis Date: **6/30/2005 4:01:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	0.5857	0.025	2.06	0	28.4	16	50	0		

Sample ID **CCV1-050630**	Batch ID: **R22548**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **CCV**	Run ID: **UV/VIS_2_050630B**	Analysis Date: **6/30/2005 10:28:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	0.2365	0.025	0.275	0	86	80	120	0		

Sample ID **CCV1-050624**	Batch ID: **R22548**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **CCV**	Run ID: **UV/VIS_2_050630B**	Analysis Date: **6/30/2005 4:06:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	0.2214	0.025	0.275	0	80.5	80	120	0		

Sample ID **ICV-050630**	Batch ID: **R22548**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **ICV**	Run ID: **UV/VIS_2_050630B**	Analysis Date: **6/30/2005 9:57:00 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	0.1286	0.025	0.138	0	93.2	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0506160
Project: Sii, Smith Services Drilco-Hobbs, NM

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_050630C

Sample ID **MB-19525**	Batch ID: **19525**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **UV/VIS_2_050630C**	Analysis Date: **6/30/2005 4:52:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	ND	0.1								

Sample ID **LCS-19525 CN**	Batch ID: **19525**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **LCS**	Run ID: **UV/VIS_2_050630C**	Analysis Date: **6/30/2005 4:52:00 PM**	Prep Date: **6/30/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.2789	0.1	10	0	2.79	0	60	0		

Sample ID **CCV1-050630**	Batch ID: **R22549**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **CCV**	Run ID: **UV/VIS_2_050630C**	Analysis Date: **6/30/2005 4:56:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.2204	0.05	0.2	0	110	85	115	0		

Sample ID **ICV-050630**	Batch ID: **R22549**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType **ICV**	Run ID: **UV/VIS_2_050630C**	Analysis Date: **6/30/2005 4:36:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.09944	0.05	0.1	0	99.4	85	115	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

DHL ANALYTICAL

September 23, 2005

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

RE: Sii Drilco Hobbs Facility Rem

Order No.: 0509071

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 1 sample on 9/15/2005 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

DHL ANALYTICAL

TABLE OF CONTENTS

This report for SMITH INTERNATIONAL: Sii Drilco Hobbs Facility Rem (DHL Work Order 0509071) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-6
• Case Narrative	7-8
• Work Order Sample Summary	9
• Preparation Dates Report	10
• Analytical Dates Report	11
• Sample Results	12
• QC Summary Report	13-24
• Total Number of Pages	24

September 23, 2005

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

8432/3504146

№ 27978

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 13 & 14 September 2005 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0509071
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Faulity Rem
CLIENT PROJECT #: Sii Drilco Hobbs NM #110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

Sample Prefix NM-HB-DRL-

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

G-Glass 4oz Container Type

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 | DIESEL - MOD 8015 | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) | LEAD - TOTAL ☐ OTHER LIST ☐ | RCI ☐ TOX ☐ D.W. 200.8 ☐ TCLP ☐ | TDS ☐ TSS ☐ FLASHPOINT ☐ | pH ☐ % MOISTURE ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

New Mexico

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015	DIESEL - MOD 8015	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA)	LEAD - TOTAL ☐ OTHER LIST ☐	RCI ☐ TOX ☐ D.W. 200.8 ☐ TCLP ☐	TDS ☐ TSS ☐ FLASHPOINT ☐	pH ☐ % MOISTURE ☐ HEXAVALENT CHROMIUM ☐ CYANIDE ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
BF2	01	13 Sept	1400	S	G	2				X			X	X							X									

FedEx Express **USA Airbill**

FedEx Tracking Number 8432 1350 4146

Form ID No. 0215

1 From This portion can be removed for Recipient's records.

Date 9/14/.. FedEx Tracking Number 843213504146

Sender's Name [illegible] Phone [illegible]

Company 3-D [illegible]

Address 434 E. [illegible] St. -

Dept./Floor/Suite/Room

City [illegible] State OR ZIP 7[illegible]

RECIPIENT: PEEL HERE

2 Your Internal Billing Reference S. [illegible]

3 To

Recipient's Name [illegible] Phone [illegible]

Company DHL ANALYTICAL

Address 2300 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City MEDFORD State [illegible] ZIP [illegible]

8432 1350 4146

4a Express Package Service

- [X] FedEx Priority Overnight — Next business morning
- [ ] Fed Next
- [ ] FedEx 2Day — Second business day
- [ ] Fedl Third
- FedEx Envelope rate not available. Minimum charge (

4b Express Freight Service

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedE Secon

* Call for Confirmation

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Include: Large P

6 Special Handling

- [ ] **SATURDAY Delivery** — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] **HOLD** at Fed — Not avai FedEx Fi

Does this shipment contain dangerous goods?

One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Obtain Recip Acct. No

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Chec

Total Packages	Total Weight	Total Charges
1	2	

Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

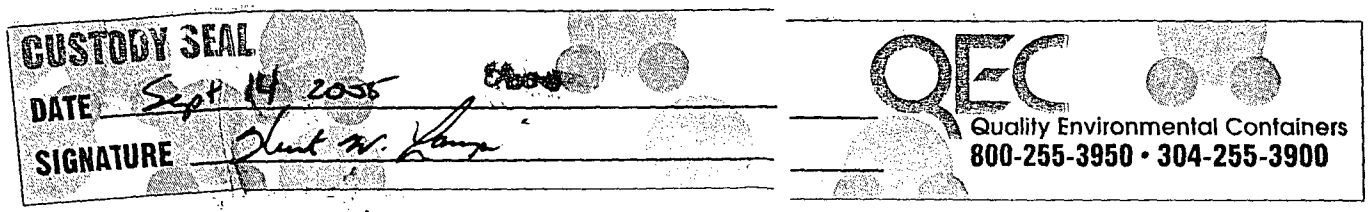
8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447


CUSTODY SEAL
DATE Sept 14 2006
SIGNATURE
QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name **SMITH INTERNATIONAL** Date Received: **9/15/05**

Work Order Number **0509071** Received by MLW

Checklist completed by Signature Mark WO 9.15.5 Date Reviewed by Initials JD 9/15/05 Date

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon recipt?	Yes ☐	No ☐	NotApplicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action Taken: _____

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem
Lab Order: 0509071

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW6020 - Metals Analysis
Method SW7471A - Mercury Analysis
Method M8015D - DRO/ORO Analysis
Method M8015V - Gasoline Range Organics
Method D2216 - Percent Moisture

LOG IN

The sample was received and log-in performed on 9/15/05. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

MERCURY

For Mercury analysis performed on 9/22/05 the matrix spike recovery was slightly below control limits. This is flagged accordingly in the QC summary report. The sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits. No further corrective actions were required and no sample results were adversely affected.

For Mercury analysis performed on 9/22/05 the RPD for the serial dilution was slightly above control limits. This is flagged accordingly. The PDS for Mercury was within control limits therefore no further corrective actions were required.

METALS

For Metals analysis performed on 9/21/05 the matrix spike recovery was slightly above control limits for Barium. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

For Metals analysis performed on 9/21/05 the RPD for the serial dilution was above control limits for a few analytes. These are flagged accordingly. The PDS for these analytes were within control limits therefore no further corrective actions were required.

PERCENT MOISTURE

For Percent Moisture analysis performed on 9/16/05 the RPD for the sample and sample duplicate (0509065-

05A DUP) were slightly above control limits. This is flagged accordingly in the QC summary report. The other sample duplicate (0509071-01A DUP) was within control limits. No further corrective actions were required and no sample results were adversely affected.

DATA REPORTING

Sample reports include the Method Detection Limit (MDL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting MDL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the MDL if the sample result is very near the MDL.

DHL Analytical

Date: *23-Sep-05*

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem
Lab Order: 0509071

Work Order Sample Summary

Lab Sam ID	Client Sample ID	Tag Number	Collection Date	Date Recved
0509071-01	NM-HB-DRL-BF2		9/13/2005 2:00:00 PM	9/15/2005

Lab Order: 0509071
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch I
0509071-01A	NM-HB-DRL-BF2	9/13/2005 2:00:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	9/21/2005 9:00:00 AM	20251
	NM-HB-DRL-BF2	9/13/2005 2:00:00 PM	Soil	SW7471A	Mercury Soil Prep, Total	9/21/2005 1:30:00 PM	20252
	NM-HB-DRL-BF2	9/13/2005 2:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/21/2005 9:38:01 AM	20255
	NM-HB-DRL-BF2	9/13/2005 2:00:00 PM	Soil	D2216	Percent Moisture	9/16/2005 11:28:00 A	PMOIST-09/16/05C
0509071-01B	NM-HB-DRL-BF2	9/13/2005 2:00:00 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	9/16/2005 10:47:52 A	20231

Lab Order: 0509071
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0509071-01A	NM-HB-DRL-BF2	Soil	SW6020	Trace Metals: ICP-MS - Soil	20251	5	9/21/2005 7:37:00 PM	ICP-MS2_050921A
	NM-HB-DRL-BF2	Soil	SW7471A	Total Mercury: Soil/Solid	20252	1	9/22/2005 10:18:05 AM	CETAC_HG_050922
	NM-HB-DRL-BF2	Soil	M8015D	TPH by GC - Soil DRO+ORO	20255	1	9/21/2005 6:05:57 PM	GC15_050921A
	NM-HB-DRL-BF2	Soil	D2216	Percent Moisture	PMOIST-09/16/05C	1	9/16/2005 4:05:00 PM	PMOIST_050916C
0509071-01B	NM-HB-DRL-BF2	Soil	M8015V	Modified 8015 Gasoline (GRO)	20231	1	9/20/2005 3:44:37 PM	GC4_050920A

DHL Analytical

Date: *23-Sep-05*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BF2
Project Name:	Sii Drilco Hobbs Facility Rem	**Lab ID:**	0509071-01
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	9/13/2005 2:00:00 PM
Lab Order:	0509071	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**				Analyst: **DO**	
TPH-DRO C10-C28	ND	3.0	9.96		mg/Kg-dry	1	9/21/2005 6:05:57 PM
TPH-ORO >C28-C35	ND	3.0	9.96		mg/Kg-dry	1	9/21/2005 6:05:57 PM
Surr: o-Terphenyl	77.7	0	47-142		%REC	1	9/21/2005 6:05:57 PM
Surr: Octacosane	95.2	0	25-162		%REC	1	9/21/2005 6:05:57 PM
TOTAL MERCURY		**SW7471A**				Analyst: **LY**	
Mercury	ND	0.015	0.0378		mg/Kg-dry	1	9/22/2005 10:18:05 AM
TOTAL METALS: ICP-MS		**SW6020**				Analyst: **AJR**	
Arsenic	4.56	0.49	0.971		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Barium	397	0.49	1.94		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Cadmium	ND	0.097	0.291		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Chromium	3.63	0.49	1.94		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Lead	1.98	0.097	0.291		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Selenium	1.33	0.15	0.485		mg/Kg-dry	5	9/21/2005 7:37:00 PM
Silver	ND	0.097	0.194		mg/Kg-dry	5	9/21/2005 7:37:00 PM
GAS		**M8015V**				Analyst: **KC**	
Gasoline Range Organics	ND	0.057	0.191		mg/Kg-dry	1	9/20/2005 3:44:37 PM
Surr: Tetrachlorethene	88.9	0	70-134		%REC	1	9/20/2005 3:44:37 PM
PERCENT MOISTURE		**D2216**				Analyst: **JAW**	
Percent Moisture	4.61	0			WT%	1	9/16/2005 4:05:00 PM

Qualifiers

ND - Not Detected at the Method Detection Limit

J - Analyte detected between MDL and RL

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside control limits

C - Sample Result or QC discussed in Case Narrative

E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050921A

Sample ID **MB-20255**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 5:12:33 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10								
TPH-ORO >C28-C35	ND	10								
Surr: o-Terphenyl	13.82	0	15	0	92.1	47	142	0		
Surr: Octacosane	17.6	0	15	0	117	25	162	0		

Sample ID **LCS-20255**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **LCS**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 5:39:09 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	127.7	10	250	0	51.1	50	114	0		
Surr: o-Terphenyl	13.38	0	15	0	89.2	47	142	0		
Surr: Octacosane	15.73	0	15	0	105	25	162	0		

Sample ID **0509071-01A MS**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 6:58:52 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	225.8	9.97	249.1	0	90.6	50	114	0		
Surr: o-Terphenyl	13.88	0	14.95	0	92.9	47	142	0		
Surr: Octacosane	15.25	0	14.95	0	102	25	162	0		

Sample ID **0509071-01A MSD**	Batch ID: **20255**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 7:25:11 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	231.3	9.87	246.8	0	93.7	50	114	2.44	30	
Surr: o-Terphenyl	14.43	0	14.81	0	97.5	47	142	0	0	
Surr: Octacosane	16.02	0	14.81	0	108	25	162	0	0	

Sample ID **CCV1-050921**	Batch ID: **R23568**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **CCV**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 7:51:15 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	486.4	10	500	0	97.3	85	115	0		
TPH-ORO >C28-C35	1.381	10	0	0	0	0	0	0		
Surr: o-Terphenyl	18.26	0	20	0	91.3	47	142	0		
Surr: Octacosane	15.58	0	20	0	77.9	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_050921A

Sample ID **ICV-050921**	Batch ID: **R23568**	TestNo: **M8015D**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC15_050921A**	Analysis Date: **9/21/2005 4:44:16 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	915.1	10	1000	0	91.5	85	115	0		
TPH-ORO >C28-C35	1.445	10	0	0	0	0	0	0		
Surr: o-Terphenyl	17.85	0	25	0	71.4	47	142	0		
Surr: Octacosane	14.63	0	25	0	58.5	25	162	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_050920A

Sample ID **MB-20231** Batch ID: **20231** TestNo: **M8015V** Units: **mg/Kg**
SampType **MBLK** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 6:56:12 PM** Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.2								
Surr: Tetrachlorethene	0.4271	0	0.5	0	85.4	70	134	0		

Sample ID **LCS-20231** Batch ID: **20231** TestNo: **M8015V** Units: **mg/Kg**
SampType **LCS** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 3:00:38 PM** Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	4.476	0.2	5	0	89.5	68	106	0		
Surr: Tetrachlorethene	0.5016	0	0.5	0	100	70	134	0		

Sample ID **0509071-01BMS** Batch ID: **20231** TestNo: **M8015V** Units: **mg/Kg-dry**
SampType **MS** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 4:06:35 PM** Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	4.845	0.202	5.04	0	96.1	68	106	0		
Surr: Tetrachlorethene	0.5556	0	0.504	0	110	70	134	0		

Sample ID **0509071-01BMSD** Batch ID: **20231** TestNo: **M8015V** Units: **mg/Kg-dry**
SampType **MSD** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 4:28:39 PM** Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	4.756	0.198	4.945	0	96.2	68	106	1.85	30	
Surr: Tetrachlorethene	0.5414	0	0.4945	0	109	70	134	0	0	

Sample ID **CCV1-050920** Batch ID: **R23545** TestNo: **M8015V** Units: **mg/Kg**
SampType **CCV** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 6:12:14 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	5.482	0.2	5	0	110	85	115	0		
Surr: Tetrachlorethene	0.5974	0	0.5	0	119	74	138	0		

Sample ID **CCV2-050920** Batch ID: **R23545** TestNo: **M8015V** Units: **mg/Kg**
SampType **CCV** Run ID: **GC4_050920A** Analysis Date: **9/20/2005 7:40:08 PM** Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	4.392	0.2	5	0	87.8	85	115	0		
Surr: Tetrachlorethene	0.519	0	0.5	0	104	74	138	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_050920A

Sample ID **ICV-050920**	Batch ID: **R23545**	TestNo: **M8015V**	Units: **mg/Kg**
SampType **ICV**	Run ID: **GC4_050920A**	Analysis Date: **9/20/2005 2:38:45 PM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	9.526	0.2	10	0	95.3	85	115	0		
Surr: Tetrachlorethene	0.6199	0	0.5	0	124	74	138	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050922A

Sample ID **MB-20252**	Batch ID: **20252**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:11:58 AM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.04								

Sample ID **LCS-20252**	Batch ID: **20252**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **LCS**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:14:00 AM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.189	0.04	0.2	0	94.5	85	115	0		

Sample ID **LCSD-20252**	Batch ID: **20252**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:16:02 AM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.193	0.04	0.2	0	96.5	85	115	2.09	25	

Sample ID **0509082-04A MS**	Batch ID: **20252**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:28:17 AM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.6025	0.101	0.5063	0.2032	78.9	80	120	0		S

Sample ID **0509082-04A MSD**	Batch ID: **20252**	TestNo: **SW7471A**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:30:20 AM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.5526	0.0863	0.4317	0.2032	80.9	80	120	8.63	25	

Sample ID **CCV1-050922**	Batch ID: **R23570**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **CCV**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 10:32:31 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00204	0.04	0.002	0	102	90	110	0		

Sample ID **CCV2-050922**	Batch ID: **R23570**	TestNo: **SW7471A**	Units: **mg/Kg**
SampType **CCV**	Run ID: **CETAC_HG_050922A**	Analysis Date: **9/22/2005 11:04:57 AM**	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00205	0.04	0.002	0	103	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_050922A

Sample ID	ICV-050922	Batch ID:	R23570	TestNo:	SW7471A	Units:	mg/Kg
SampType	ICV	Run ID:	CETAC_HG_050922A	Analysis Date:	9/22/2005 10:04:05 AM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.004	0.04	0.004	0	100	90	110	0		

Sample ID	0509082-04A PDS	Batch ID:	20252	TestNo:	SW7471A	Units:	mg/Kg-dry
SampType	PDS	Run ID:	CETAC_HG_050922A	Analysis Date:	9/22/2005 10:38:41 AM	Prep Date:	9/21/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.6362	0.0912	0.456	0.2032	95	85	115	0		

Sample ID	0509082-04A SD	Batch ID:	20252	TestNo:	SW7471A	Units:	mg/Kg-dry
SampType	SD	Run ID:	CETAC_HG_050922A	Analysis Date:	9/22/2005 10:36:38 AM	Prep Date:	9/21/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.2292	0.182	0	0.2032	0	0	0	12.0	10	R

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050921A

Sample ID **MB-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **ICP-MS2_050921A**	Analysis Date: **9/21/2005 6:35:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Arsenic	ND	1								
Barium	ND	2								
Cadmium	ND	0.3								
Chromium	ND	2								
Lead	ND	0.3								
Selenium	ND	0.5								

Sample ID **LCS-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCS**	Run ID: **ICP-MS2_050921A**	Analysis Date: **9/21/2005 6:54:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Arsenic	48.1	1	50	0	96.2	80	120	0		
Barium	50.52	2	50	0	101	80	120	0		
Cadmium	48.6	0.3	50	0	97.2	80	120	0		
Chromium	51.32	2	50	0	103	80	120	0		
Lead	51.25	0.3	50	0	103	80	120	0		
Selenium	44.38	0.5	50	0	88.8	80	120	0		

Sample ID **LCSD-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **ICP-MS2_050921A**	Analysis Date: **9/21/2005 6:58:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Arsenic	51.72	1	50	0	103	80	120	7.26	25	
Barium	53.62	2	50	0	107	80	120	5.95	25	
Cadmium	51.62	0.3	50	0	103	80	120	6.04	25	
Chromium	55.35	2	50	0	111	80	120	7.55	25	
Lead	55.88	0.3	50	0	112	80	120	8.63	25	
Selenium	47.8	0.5	50	0	95.6	80	120	7.43	25	

Sample ID **0509086-12A MS**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS2_050921A**	Analysis Date: **9/21/2005 7:02:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Arsenic	55.9	1.07	53.34	5.853	93.8	80	120	0		
Barium	177.5	2.13	53.34	111.5	124	80	120	0		S
Cadmium	50	0.32	53.34	0.3265	93.1	80	120	0		
Chromium	76.91	2.13	53.34	23.21	101	80	120	0		
Lead	83.1	0.32	53.34	31.55	96.6	80	120	0		
Selenium	45.66	0.533	53.34	1.57	82.7	80	120	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

Sample ID	0509086-12A MSD	Batch ID:	20251	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	MSD	Run ID:	ICP-MS2_050921A	Analysis Date:	9/21/2005 7:06:00 PM	Prep Date:	9/21/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.96	1.06	52.83	5.853	89.2	80	120	5.39	25	
Barium	165.6	2.11	52.83	111.5	102	80	120	6.93	25	
Cadmium	46.73	0.317	52.83	0.3265	87.8	80	120	6.77	25	
Chromium	72.35	2.11	52.83	23.21	93	80	120	6.11	25	
Lead	73.91	0.317	52.83	31.55	80.2	80	120	11.7	25	
Selenium	44.06	0.528	52.83	1.57	80.4	80	120	3.56	25	

Sample ID	0509086-12A PDS	Batch ID:	20251	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	PDS	Run ID:	ICP-MS2_050921A	Analysis Date:	9/21/2005 7:10:00 PM	Prep Date:	9/21/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.95	1.05	52.33	5.853	91.9	75	125	0		
Barium	153.6	2.09	52.33	111.5	80.4	75	125	0		
Cadmium	47.49	0.314	52.33	0.3265	90.1	75	125	0		
Chromium	70.25	2.09	52.33	23.21	89.9	75	125	0		
Lead	84.02	0.314	52.33	31.55	100	75	125	0		
Selenium	44.38	0.523	52.33	1.57	81.8	75	125	0		

Sample ID	0509086-12A SD	Batch ID:	20251	TestNo:	SW6020	Units:	mg/Kg-dry
SampType	SD	Run ID:	ICP-MS2_050921A	Analysis Date:	9/21/2005 6:43:00 PM	Prep Date:	9/21/2005

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	5.508	5.23	0	5.853	0	0	0	6.08	10	
Barium	95.55	10.5	0	111.5	0	0	0	15.4	10	R
Cadmium	ND	1.57	0	0.3265	0	0	0	0	10	
Chromium	20.6	10.5	0	23.21	0	0	0	11.9	10	R
Lead	27.28	1.57	0	31.55	0	0	0	14.5	10	R
Selenium	1.131	0.785	0	1.57	0	0	0	32.5	10	R

Sample ID	CCV2-050921	Batch ID:	R23560	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS2_050921A	Analysis Date:	9/21/2005 5:56:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	206	6	200	0	103	90	110	0		
Barium	208.9	10	200	0	104	90	110	0		
Cadmium	209.9	1	200	0	105	90	110	0		
Chromium	217.9	6	200	0	109	90	110	0		
Lead	214.9	1	200	0	107	90	110	0		
Selenium	203.7	6	200	0	102	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050921A

Sample ID CCV3-050921	Batch ID: R23560	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050921A	Analysis Date: 9/21/2005 7:21:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	198.5	6	200	0	99.2	90	110	0		
Barium	198.6	10	200	0	99.3	90	110	0		
Cadmium	198.5	1	200	0	99.2	90	110	0		
Chromium	202.8	6	200	0	101	90	110	0		
Lead	205.4	1	200	0	103	90	110	0		
Selenium	196.1	6	200	0	98	90	110	0		
Silver	211.5	2	200	0	106	90	110	0		

Sample ID CCV4-050921	Batch ID: R23560	TestNo: SW6020	Units: µg/L
SampType CCV	Run ID: ICP-MS2_050921A	Analysis Date: 9/21/2005 8:24:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	193	6	200	0	96.5	90	110	0		
Barium	194	10	200	0	97	90	110	0		
Cadmium	190.6	1	200	0	95.3	90	110	0		
Chromium	188.9	6	200	0	94.4	90	110	0		
Lead	200	1	200	0	100	90	110	0		
Selenium	190.8	6	200	0	95.4	90	110	0		
Silver	204.1	2	200	0	102	90	110	0		

Sample ID ICV1-050921	Batch ID: R23560	TestNo: SW6020	Units: µg/L
SampType ICV	Run ID: ICP-MS2_050921A	Analysis Date: 9/21/2005 3:56:00 PM	Prep Date:

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	102	6	100	0	102	90	110	0		
Barium	94.98	10	100	0	95	90	110	0		
Cadmium	100.9	1	100	0	101	90	110	0		
Chromium	103	6	100	0	103	90	110	0		
Lead	104.8	1	100	0	105	90	110	0		
Selenium	98.47	6	100	0	98.5	90	110	0		
Silver	102.2	2	100	0	102	90	110	0		

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050922A

Sample ID **MB-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **MBLK**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 12:05:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	0.2								

Sample ID **LCS-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCS**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 1:42:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	49.5	0.2	50	0	99	80	120	0		

Sample ID **LCSD-20251**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg**
SampType **LCSD**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 1:46:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	50.22	0.2	50	0	100	80	120	1.45	25	

Sample ID **0509086-12A MS**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MS**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 12:29:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	49.9	0.213	53.34	0	93.6	80	120	0		

Sample ID **0509086-12A MSD**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **MSD**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 12:33:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	47.68	0.211	52.83	0	90.2	80	120	4.55	25	

Sample ID **0509086-12A PDS**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **PDS**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 12:40:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	50.89	0.209	52.33	0	97.2	75	125	0		

Sample ID **0509086-12A SD**	Batch ID: **20251**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType **SD**	Run ID: **ICP-MS2_050922A**	Analysis Date: **9/22/2005 1:35:00 PM**	Prep Date: **9/21/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	ND	1.05	0	0	0	0	0	0	10	

Qualifiers:
ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_050922A

Sample ID	CCV1-050922	Batch ID:	R23573	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS2_050922A	Analysis Date:	9/22/2005 1:23:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	203.8	2	200	0	102	90	110	0		

Sample ID	CCV2-050922	Batch ID:	R23573	TestNo:	SW6020	Units:	µg/L
SampType	CCV	Run ID:	ICP-MS2_050922A	Analysis Date:	9/22/2005 2:53:00 PM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	202.3	2	200	0	101	90	110	0		

Sample ID	ICV1-050922	Batch ID:	R23573	TestNo:	SW6020	Units:	µg/L
SampType	ICV	Run ID:	ICP-MS2_050922A	Analysis Date:	9/22/2005 11:38:00 AM	Prep Date:	

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Silver	104.4	2	100	0	104	90	110	0		

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

CLIENT: SMITH INTERNATIONAL
Work Order: 0509071
Project: Sii Drilco Hobbs Facility Rem

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_050916C

Sample ID **0509065-05A DUP**	Batch ID: **PMOIST-09/16/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050916C**	Analysis Date: **9/16/2005 4:05:00 PM**	Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	10.41	0	0	7.306	0	0	0	35.0	30	R

Sample ID **0509071-01A DUP**	Batch ID: **PMOIST-09/16/05**	TestNo: **D2216**	Units: **WT%**
SampType **DUP**	Run ID: **PMOIST_050916C**	Analysis Date: **9/16/2005 4:05:00 PM**	Prep Date: **9/16/2005**

Analyte	Result	RL	SPK value	SPK Ref	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	5.39	0	0	4.612	0	0	0	15.5	30	

Qualifiers:

ND - Not Detected at the Method Detection 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 Blanl

DHL ANALYTICAL

September 08, 2006

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0608241

RE: Sii Drilco Hobbs Facility

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 1 sample(s) on 8/31/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Sii Drilco Hobbs Facility (DHL Work Order 0608241) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9
• Work Order Summary	10
• Preparation Dates Report	11
• Analytical Dates Report	12
• Sample Results	13
• QC Summary Report	14-19
• Total Number of Pages	20

September 8, 2006

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

#8432 1350 4823

№ 27578

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281/233-5401 FAX 281/233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 30 August 2006 PAGE 1 OF 1
PO #: DHL WORK ORDER #: D608241
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Facility
CLIENT PROJECT #: Sii Drilco Hobbs NM #110423 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐ GRO DRO/DRO New Mexico	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
NM-HB-DRL-SPL-4	01	8/30	1200	S	G - 4oz Glass	2				X			X	X															

TOTAL

RELINQUISHED BY: (Signature) Kent W. Lampi DATE/TIME 8/30/06 1300 RECEIVED BY: (Signature) FedEx

RELINQUISHED BY: (Signature) FedEx DATE/TIME 8-31-06 900 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.5°C THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☐ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

200

FedEx Express USA Airbill

FedEx Tracking Number 8432 1350 4823

0215

Recipient's Copy

NO POUCH NEEDED.
See back for peel and stick application instructions.

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date 8/3/[illegible] FedEx Tracking Number 843213504823

Sender's Name [illegible] Phone

Company [illegible]

Address [illegible] Dept/Floor/Suite/Room

City [illegible] State ZIP

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 412 [illegible]

Company [illegible]

Address [illegible]

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

City [illegible] State ZIP [illegible]

8432 1350 4823

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [X] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [X] Other

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

745 [illegible]

Total Packages	Total Weight	Total Charges
1	[illegible]	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF•Rev. Date 5/03•Part #157610•©1994–2003 FedEx•PRINTED IN U.S.A.

447

CUSTODY SEAL
DATE 30 August 2006
SIGNATURE [illegible]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 8/31/2006

Work Order Number 0608241 | Received by **DU**

Checklist completed by: [signature] 8.31.06 (Signature / Date) | Reviewed by (JD) (Initials) 08/31/06 (Date)

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

5

Laboratory Data Package Signature Page

This data package consists of:

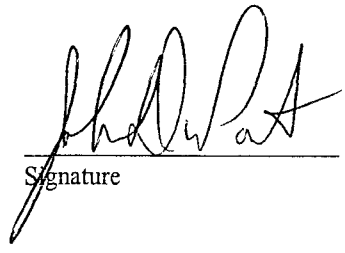
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
Michelle Green – QA Manager
John DuPont – General Manager



Signature

09/08/06

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Shell Oildale Tobbs facility	Date: 9/3/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 0608241
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		CHAIN-OF-CUSTODY (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			R4-02
R5	OI	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, (prep and cleanup steps)?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs & RPD recovery within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
R7	OI	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			✓		
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Sii Oil, Co Hobbs facility | Date: 9/8/06

Reviewer Name: Carlos Castro | Laboratory Work Order: 0608241

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND CONTINUING CALIBRATION BLANK (CCB)**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?			✓		
		2) Were ion abundance data within the method-required QC limits?			✓		
S4	O	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?			✓		
S5	OI	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, & SECTION 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?	✓				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?			✓		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	✓				
S11	OI	**PROFICIENCY TEST REPORTS**					
		1) Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		1) Are the laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable. 4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0608241

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method M8015D - DRO+ORO Analysis
Method M8015V - GRO Analysis
Method D2216 - Percent Moisture

Exception Report R1-01

The sample was received and log-in performed on 8/31/06. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

Exception Report R4-02

For DRO+ORO analysis performed on 9/5/06 the surrogate recovery for CCV2 was above control limits for o-Terphenyl. This is flagged accordingly in the QC summary report. No further corrective actions were required and no sample results were adversely affected.

For GRO analysis performed on 9/7/06 the surrogate recovery for sample NM-HB-DRL-SP1-4 was below control limits for Tetrachloroethene. This is flagged accordingly. This was confirmed by re-analysis. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For GRO analysis performed on 9/7/06 the matrix spike and matrix spike duplicate recoveries were below control limits. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were required and no sample results were adversely affected.

DATA REPORTING

Sample reports include the Sample Quantitation Limit (SQL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting SQL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometime appear that a "J" flagged result is lower than the SQL if the sample result is very near the SQL.

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0608241

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recvd
0608241-01	NM-HB-DRL-SP1-4		8/30/2006 12:00:00 PM	8/31/2006

Lab Order: 0608241
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0608241-01A	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	D2216	Percent Moisture	8/31/2006 4:40:00 PM	PMOIST-09/01/06B
	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW3550B	Soil Prep Sonication: DRO	9/5/2006 8:54:15 AM	23423
0608241-01B	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	9/7/2006 9:21:18 AM	23450
	NM-HB-DRL-SP1-4	8/30/2006 12:00:00 PM	Soil	SW5030B	Purge and Trap Soils GC- Gas	9/7/2006 9:21:18 AM	23450

Lab Order: 0608241
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0608241-01A	NM-HB-DRL-SP1-4	Soil	D2216	Percent Moisture	PMOIST-09/01/06	1	9/1/2006 8:15:00 AM	PMOIST_060831B
	NM-HB-DRL-SP1-4	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	10	9/6/2006 11:49:51 PM	GC15_060905A
	NM-HB-DRL-SP1-4	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 2:45:08 AM	GC15_060905A
	NM-HB-DRL-SP1-4	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	10	9/6/2006 11:49:51 PM	GC15_060905A
	NM-HB-DRL-SP1-4	Soil	M8015D	TPH by GC - Soil DRO+ORO	23423	1	9/6/2006 2:45:08 AM	GC15_060905A
0608241-01B	NM-HB-DRL-SP1-4	Soil	M8015V	Modified 8015 Gasoline (GRO)	23450	1	9/7/2006 4:41:14 PM	GC4_060907A
	NM-HB-DRL-SP1-4	Soil	M8015V	Modified 8015 Gasoline (GRO)	23450	1	9/7/2006 4:41:14 PM	GC4_060907A

DHL Analytical

Date: *08-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP1-4
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0608241-01
Project No:	Sii Drilco Hobbs NM 110403	**Collection Date:**	8/30/2006 12:00:00 PM
Lab Order:	0608241	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	403	31.8	106		mg/Kg-dry	10	9/6/2006 11:49:51 PM
TPH-ORO >C28-C35	48.3	3.18	10.6		mg/Kg-dry	1	9/6/2006 2:45:08 AM
Surr: o-Terphenyl	64.6	0	47-142		%REC	10	9/6/2006 11:49:51 PM
Surr: o-Terphenyl	56.7	0	47-142		%REC	1	9/6/2006 2:45:08 AM
Surr: Octacosane	82.1	0	25-162		%REC	10	9/6/2006 11:49:51 PM
Surr: Octacosane	64.1	0	25-162		%REC	1	9/6/2006 2:45:08 AM
MODIFIED 8015 GASOLINE (GRO)		**M8015V**					Analyst: **JAW**
Gasoline Range Organics	ND	0.0620	0.207		mg/Kg-dry	1	9/7/2006 4:41:14 PM
Surr: Tetrachlorethene	57.9	0	70-134	S	%REC	1	9/7/2006 4:41:14 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	12.0	0	0	N	WT%	1	9/1/2006 8:15:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID **LCS-23423**	Batch ID: **23423**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC15_060905A**	Analysis Date: **9/5/2006 7:43:42 PM**	Prep Date: **9/5/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	148	10.0	250.0	0	59.2	50	114			
Surr: o-Terphenyl	12.1		15.00		80.7	47	142			
Surr: Octacosane	12.9		15.00		86.0	25	162			

Sample ID **0608240-09A-MS**	Batch ID: **23423**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 8:58:40 PM**	Prep Date: **9/5/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	162	11.2	279.0	0	57.9	50	114			
Surr: o-Terphenyl	12.5		16.74		74.5	47	142			
Surr: Octacosane	13.7		16.74		82.0	25	162			

Sample ID **0608240-09A-MSD**	Batch ID: **23423**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 9:23:04 PM**	Prep Date: **9/5/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	174	11.2	279.0	0	62.4	50	114	7.48	30	
Surr: o-Terphenyl	11.9		16.74		71.2	47	142	0	0	
Surr: Octacosane	13.4		16.74		80.0	25	162	0	0	

Sample ID **MB-23423**	Batch ID: **23423**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC15_060905A**	Analysis Date: **9/6/2006 11:01:03 PM**	Prep Date: **9/5/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10.0								
TPH-ORO >C28-C35	ND	10.0								
Surr: o-Terphenyl	10.2		15.00		67.9	47	142			
Surr: Octacosane	11.8		15.00		78.6	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID ICV-060905	Batch ID: R27917	TestNo: M8015D	Units: mg/Kg
SampType: ICV	Run ID: GC15_060905A	Analysis Date: 9/5/2006 7:09:54 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	892	10.0	1000	0	89.2	85	115			
TPH-ORO >C28-C35	0.954	10.0	0							
Surr: o-Terphenyl	52.4		60.00		87.4	47	142			
Surr: Octacosane	41.5		60.00		69.2	25	162			

Sample ID CCV1-060905	Batch ID: R27917	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_060905A	Analysis Date: 9/5/2006 11:51:35 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	462	10.0	500.0	0	92.3	85	115			
TPH-ORO >C28-C35	0.642	10.0	0							
Surr: o-Terphenyl	29.5		30.00		98.5	47	142			
Surr: Octacosane	29.7		30.00		99.0	25	162			

Sample ID CCV2-060905	Batch ID: R27917	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_060905A	Analysis Date: 9/6/2006 4:48:53 AM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	433	10.0	500.0	0	86.6	85	115			
TPH-ORO >C28-C35	56.1	10.0	0							
Surr: o-Terphenyl	27.5		30.00		91.6	47	142			
Surr: Octacosane	28.8		30.00		96.2	25	162			

Sample ID ICV-060906	Batch ID: R27917	TestNo: M8015D	Units: mg/Kg
SampType: ICV	Run ID: GC15_060905A	Analysis Date: 9/6/2006 4:51:22 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	884	10.0	1000	0	88.4	85	115			
TPH-ORO >C28-C35	4.64	10.0	0							
Surr: o-Terphenyl	56.3		60.00		93.8	47	142			
Surr: Octacosane	43.7		60.00		72.9	25	162			

Sample ID CCV1-060906	Batch ID: R27917	TestNo: M8015D	Units: mg/Kg
SampType: CCV	Run ID: GC15_060905A	Analysis Date: 9/6/2006 10:11:54 PM	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	463	10.0	500.0	0	92.5	85	115			
TPH-ORO >C28-C35	0.883	10.0	0							
Surr: o-Terphenyl	30.0		30.00		100	47	142			
Surr: Octacosane	42.4		30.00		141	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060905A

Sample ID	CCV2-060906	Batch ID:	R27917	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_060905A	Analysis Date:	9/7/2006 10:22:20 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	455	10.0	500.0	0	91.0	85	115			
TPH-ORO >C28-C35	1.12	10.0	0							
Surr: o-Terphenyl	30.4		20.00		152	47	142			S
Surr: Octacosane	30.2		20.00		151	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_060907A

Sample ID	LCS-23450	Batch ID:	23450	TestNo:	M8015V	Units:	mg/Kg
SampType:	LCS	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 12:23:10 PM	Prep Date:	9/7/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	5.46	0.200	5.000	0	109	68	126			
Surr: Tetrachlorethene	0.390		0.4000		97.5	70	134			

Sample ID	0608241-01BMS	Batch ID:	23450	TestNo:	M8015V	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 2:18:25 PM	Prep Date:	9/7/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	2.36	0.227	5.685	0	41.5	68	126			S
Surr: Tetrachlorethene	0.347		0.4548		76.2	70	134			

Sample ID	0608241-01BMSD	Batch ID:	23450	TestNo:	M8015V	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 2:40:20 PM	Prep Date:	9/7/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	2.26	0.219	5.466	0	41.3	68	126	4.30	30	S
Surr: Tetrachlorethene	0.343		0.4373		78.4	70	134	0	0	

Sample ID	MB-23450	Batch ID:	23450	TestNo:	M8015V	Units:	mg/Kg
SampType:	MBLK	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 3:05:52 PM	Prep Date:	9/7/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Gasoline Range Organics	ND	0.200								
Surr: Tetrachlorethene	0.377		0.4000		94.4	70	134			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_060907A

Sample ID	ICV-060907	Batch ID:	R27943	TestNo:	M8015V	Units:	mg/Kg
SampType:	ICV	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 11:31:54 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	11.0	0.200	10.00	0	110	85	115			
Surr: Tetrachlorethene	0.429		0.4000		107	74	138			

Sample ID	CCV1-060907	Batch ID:	R27943	TestNo:	M8015V	Units:	mg/Kg
SampType:	CCV	Run ID:	GC4_060907A	Analysis Date:	9/7/2006 5:09:20 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.52	0.200	5.000	0	110	85	115			
Surr: Tetrachlorethene	0.390		0.4000		97.4	74	138			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_060831B

Sample ID **0608233-02A DUP**	Batch ID: **PMOIST-09/01/06B**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_060831B**	Analysis Date: **9/1/2006 8:15:00 AM**	Prep Date: **8/31/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	58.4	0	0	65.34				11.2	30	N

Sample ID **0608240-04A DUP**	Batch ID: **PMOIST-09/01/06B**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_060831B**	Analysis Date: **9/1/2006 8:15:00 AM**	Prep Date: **8/31/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
Percent Moisture	16.5	0	0	16.77				1.34	30	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0608241
Project: Sii Drilco Hobbs Facility

MQL SUMMARY REPORT

TestNo: M8015D	MDL	MQL
Analyte	mg/Kg	mg/Kg
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	MDL	MQL
Analyte	mg/Kg	mg/Kg
Gasoline Range Organics	0.0600	0.200

Qualifiers MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL ANALYTICAL

September 29, 2006

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0609126

RE: Sii Drilco Hobbs Facility

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 1 sample(s) on 9/21/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of New Mexico Laboratory Certification Number:

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Sii Drilco Hobbs Facility (DHL Work Order 0609126) contains the following information:

ITEM	Page
Cover Page	1
Table of Contents	2
Original chain of custody, fedex slip (if used), log-in checklist	3-5
Laboratory Data Package Signature Page	6
Laboratory Review Checklist	7-8
Case Narrative	9
Work Order Summary	10
Preparation Dates Report	11
Analytical Dates Report	12
Sample Results	13
QC Summary Report	14-18
MQL Summary Report	19
Total Number of Pages	19

September 29, 2006

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

#8432 1350 4889

№ 25545

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc.
ADDRESS: Houston, TX
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Mr. Lee Davis
ADDITIONAL REPORT COPIES TO: K. Lampi

DATE: 20 September 2006 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0609126
PROJECT LOCATION OR NAME: Sii Drilco Hobbs Facility
CLIENT PROJECT #: Sii Drilco Hobbs NM #110403 COLLECTOR: K. Lampi

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐	TRPH 418.1 ☐	TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐ GRO	DIESEL - MOD 8015 ☐ DRO/ORO NM	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	FIELD NOTES
NM-HB-DRL-SPLS	01	9/20	1140	S	G-4oz Glass	2				X				X	X																
TOTAL																															

RELINQUISHED BY: (Signature) Clint M. Lampi DATE/TIME 9/20/06 1200 RECEIVED BY: (Signature) FedEx

RELINQUISHED BY: (Signature) FedEx DATE/TIME 9-21-06 900 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.5°C THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

134

200

FedEx Express USA Airbill

FedEx Tracking Number 8432 1350 4889

0215 — Recipient's Copy

RECIPIENT: PEEL HERE

NO POUCH NEEDED.
See back for peel and stick application instructions.

1 From This portion can be removed for Recipient's records.

Date 9/25/06 FedEx Tracking Number 843213504889

Sender's Name [illegible] Phone [illegible]

Company 3-D [illegible]

Address 4314 [illegible] 157th S.

Dept/Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

2 Your Internal Billing Reference [illegible]

3 To

Recipient's Name [illegible] Phone [illegible]

Company DHL ANALYTICAL

Address 23000 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept/Floor/Suite/Room

City [illegible] State [illegible] ZIP [illegible]

8432 1350 4889

4a Express Package Service — *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service — *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation: _____

5 Packaging — * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Obtain Recip. Acct. No. [ ]

Enter FedEx Acct. No. or Credit Card No. below.

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [x] Credit Card
- [ ] Cash/Check

[illegible]

Total Packages	Total Weight	Total Charges
1	22.5	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1-800-GO-FedEx® 800.463.3339.

SRF•Rev. Date 5/05•Part #157610•©1994–2003 FedEx•PRINTED IN U.S.A.

1147

CUSTODY SEAL
DATE 20 Sept. 2006 1200
SIGNATURE [illegible]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 9/21/2006

Work Order Number 0609126 | Received by **DU**

Checklist completed by: [signature] Signature | 9.21.06 Date | Reviewed by (JD) Initials | 09/21/06 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

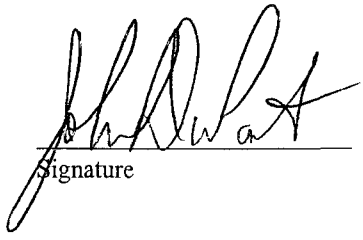
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
Michelle Green – QA Manager
John DuPont – General Manager



Signature

10/02/06

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Sii Dilco Hobbs facility	Date: 9/29/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 609126
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
R1	OI	**CHAIN-OF-CUSTODY (C-O-C)**					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	**SAMPLE AND QUALITY CONTROL (QC) IDENTIFICATION**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**TEST REPORTS**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	**SURROGATE RECOVERY DATA**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			R4-02
R5	OI	**TEST REPORTS/SUMMARY FORMS FOR BLANK SAMPLES**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**LABORATORY CONTROL SAMPLES (LCS)**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, (prep and cleanup steps)?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs & RPD recovery within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
R7	OI	**MATRIX SPIKE (MS) AND MATRIX SPIKE DUPLICATE (MSD) DATA**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	**ANALYTICAL DUPLICATE DATA**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**METHOD QUANTITATION LIMITS (MQLS)**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**OTHER PROBLEMS/ANOMALIES**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?			✓		
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Sir Delco Hobbs Facility	Date: 9/29/06
Reviewer Name: Carlos Castro	Laboratory Work Order: 0609126

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**INITIAL CALIBRATION (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**INITIAL AND CONTINUING CALIBRATION VERIFICATION (ICCV AND CCV) AND CONTINUING CALIBRATION BLANK (CCB)**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**MASS SPECTRAL TUNING**					
		1) Was the appropriate compound for the method used for tuning?			✓		
		2) Were ion abundance data within the method-required QC limits?			✓		
S4	O	**INTERNAL STANDARDS (IS)**					
		1) Were IS area counts and retention times within the method-required QC limits?			✓		
S5	OI	**RAW DATA (NELAC SECTION 1 APPENDIX A GLOSSARY, & SECTION 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**DUAL COLUMN CONFIRMATION**					
		1) Did dual column confirmation results meet the method-required QC?	✓				
S7	O	**TENTATIVELY IDENTIFIED COMPOUNDS (TICS)**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**INTERFERENCE CHECK SAMPLE (ICS) RESULTS**					
		1) Were percent recoveries within method QC limits?			✓		
S9	I	**SERIAL DILUTIONS, POST DIGESTION SPIKES, AND METHOD OF STANDARD ADDITIONS**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			✓		
S10	OI	**METHOD DETECTION LIMIT (MDL) STUDIES**					
		1) Was a MDL study performed for each reported analyte?	✓				
S11	OI	**PROFICIENCY TEST REPORTS**					
		1) Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**STANDARDS DOCUMENTATION**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**COMPOUND/ANALYTE IDENTIFICATION PROCEDURES**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**DEMONSTRATION OF ANALYST COMPETENCY (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
S15	OI	**VERIFICATION/VALIDATION DOCUMENTATION FOR METHODS (NELAC)**					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**LABORATORY STANDARD OPERATING PROCEDURES (SOPS)**					
		1) Are the laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable. 4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0609126

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method M8015V - GRO Analysis
Method M8015D - DRO+ORO Analysis
Method D2216 - Percent Moisture

Exception Report R1-01

The sample was received and log-in performed on 9/21/06. A total of 1 sample was received. The sample arrived in good condition and was properly packaged.

Exception Report R4-02

For DRO+ORO analysis peformed on 9/28/06 the surrogate recoveries for sample NM-HB-DRL-SP-1-5 and the matrix spike were above control limits for Octacosane. These are flagged accordingly. No further corrective actions were required and no sample results were adversely affected.

For GRO analysis peformed on 9/25/06 the surrogate recoveries for sample NM-HB-DRL-SP-1-5 and the matrix spike and matrix spike duplicate were slightly below control limits. These are flagged accordingly. These were confirmed by re-analysis. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For GRO analysis performed on 9/25/06 the matrix spike and matrix spike duplicate recoveries were below control limits. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were required and no sample results were adversely affected.

DATA REPORTING

Sample reports include the Sample Quantitation Limit (SQL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting SQL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the SQL if the sample result is very near the SQL.

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility
Lab Order: 0609126

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recvd
0609126-01	NM-HB-DRL-SP-1-5		9/20/2006 11:40:00 AM	9/21/2006

DHL Analytical

29-Sep-06

Lab Order: 0609126
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0609126-01A	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	D2216	Percent Moisture	9/22/2006 4:40:00 PM	PMOIST-09/25/06B
	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	9/25/2006 9:40:58 AM	23605
	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	SW5030B	Purge and Trap Soils GC- Gas	9/25/2006 9:40:58 AM	23605
	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598
	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598
	NM-HB-DRL-SP-1-5	)/20/2006 11:40:00 AM	Soil	SW3550B	Soil Prep Sonication: DRO	9/25/2006 9:00:00 AM	23598

Lab Order: 0609126
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Facility

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0609126-01A	NM-HB-DRL-SP-1-5	Soil	M8015V	Modified 8015 Gasoline (GRO)	23605	1	9/25/2006 3:21:19 PM	GC4_060925A
	NM-HB-DRL-SP-1-5	Soil	M8015V	Modified 8015 Gasoline (GRO)	23605	1	9/25/2006 3:21:19 PM	GC4_060925A
	NM-HB-DRL-SP-1-5	Soil	D2216	Percent Moisture	PMOIST-09/25/06	1	9/25/2006 8:25:00 AM	PMOIST_060922B
	NM-HB-DRL-SP-1-5	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	10	9/28/2006 8:11:48 PM	GC15_060928A
	NM-HB-DRL-SP-1-5	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	1	9/28/2006 8:38:17 PM	GC15_060928A
	NM-HB-DRL-SP-1-5	Soil	M8015D	TPH by GC - Soil DRO+ORO	23598	10	9/28/2006 8:11:48 PM	GC15_060928A

DHL Analytical

Date: *29-Sep-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP-1-5
Project:	Sii Drilco Hobbs Facility	**Lab ID:**	0609126-01
Project No:	Sii Drilco Hobbs NM #110403	**Collection Date:**	9/20/2006 11:40:00 AM
Lab Order:	0609126	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TPH BY GC - SOIL DRO+ORO		**M8015D**					Analyst: **DO**
TPH-DRO C10-C28	2210	33.6	112		mg/Kg-dry	10	9/28/2006 8:11:48 PM
TPH-ORO >C28-C35	349	33.6	112		mg/Kg-dry	10	9/28/2006 8:11:48 PM
Surr: o-Terphenyl	68.8	0	47-142		%REC	10	9/28/2006 8:11:48 PM
Surr: Octacosane	1350	0	25-162	S	%REC	10	9/28/2006 8:11:48 PM
MODIFIED 8015 GASOLINE (GRO)		**M8015V**					Analyst: **JAW**
Gasoline Range Organics	ND	0.0632	0.211		mg/Kg-dry	1	9/25/2006 3:21:19 PM
Surr: Tetrachlorethene	65.8	0	70-134	S	%REC	1	9/25/2006 3:21:19 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	13.7	0	0	N	WT%	1	9/25/2006 8:25:00 AM

Qualifiers

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060928A

Sample ID **MB-23598**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 6:52:03 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10.0								
TPH-ORO >C28-C35	ND	10.0								
Surr: o-Terphenyl	11.9		15.00		79.4	47	142			
Surr: Octacosane	12.9		15.00		86.3	25	162			

Sample ID **0609122-05A-MS**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:05:18 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	413	11.9	297.1	242.5	57.4	50	114			
Surr: o-Terphenyl	12.9		17.83		72.6	47	142			
Surr: Octacosane	52.4		17.83		294	25	162			S

Sample ID **0609122-05A-MSD**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:32:11 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	407	11.9	297.1	242.5	55.3	50	114	1.57	30	
Surr: o-Terphenyl	13.9		17.83		77.9	47	142	0	0	
Surr: Octacosane	28.7		17.83		161	25	162	0	0	

Sample ID **LCS-23598**	Batch ID: **23598**	TestNo: **M8015D**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC15_060928A**	Analysis Date: **9/28/2006 9:58:59 PM**	Prep Date: **9/25/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	166	10.0	250.0	0	66.2	50	114			
Surr: o-Terphenyl	12.6		15.00		84.0	47	142			
Surr: Octacosane	14.6		15.00		97.6	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_060928A

Sample ID	ICV-060928	Batch ID:	R28138	TestNo:	M8015D	Units:	mg/Kg
SampType:	ICV	Run ID:	GC15_060928A	Analysis Date:	9/28/2006 2:25:23 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	1020	10.0	1000	0	102	85	115			
TPH-ORO >C28-C35	0.990	10.0	0							
Surr: o-Terphenyl	60.7		60.00		101	47	142			
Surr: Octacosane	55.5		60.00		92.4	25	162			

Sample ID	CCV1-060929	Batch ID:	R28138	TestNo:	M8015D	Units:	mg/Kg
SampType:	CCV	Run ID:	GC15_060928A	Analysis Date:	9/28/2006 10:51:54 P	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	High Limit	%RPD	RPD Limit	Qual
TPH-DRO C10-C28	533	10.0	500.0	0	107	85	115			
TPH-ORO >C28-C35	5.53	10.0	0							
Surr: o-Terphenyl	32.5		30.00		108	47	142			
Surr: Octacosane	32.9		30.00		110	25	162			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_060925A

Sample ID	LCS-23605	Batch ID:	23605	TestNo:	M8015V	Units:	mg/Kg
SampType:	LCS	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 12:45:55 P	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.15	0.200	5.000	0	103	68	126			
Surr: Tetrachlorethene	0.382		0.4000		95.6	70	134			

Sample ID	MB-23605	Batch ID:	23605	TestNo:	M8015V	Units:	mg/Kg
SampType:	MBLK	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 2:58:11 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	0.200								
Surr: Tetrachlorethene	0.370		0.4000		92.6	70	134			

Sample ID	0609126-01AMS	Batch ID:	23605	TestNo:	M8015V	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 3:45:31 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	1.78	0.223	5.570	0	32.0	68	126			S
Surr: Tetrachlorethene	0.284		0.4456		63.7	70	134			S

Sample ID	0609126-01AMSD	Batch ID:	23605	TestNo:	M8015V	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 4:09:11 PM	Prep Date:	9/25/2006

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	1.57	0.215	5.364	0	29.2	68	126	12.6	30	S
Surr: Tetrachlorethene	0.266		0.4291		62.0	70	134	0	0	S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_060925A

Sample ID	ICV-060925	Batch ID:	R28131	TestNo:	M8015V	Units:	mg/Kg
SampType:	ICV	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 12:13:33 P	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	10.5	0.200	10.00	0	105	85	115			
Surr: Tetrachlorethene	0.410		0.4000		103	74	138			

Sample ID	CCV1-060925	Batch ID:	R28131	TestNo:	M8015V	Units:	mg/Kg
SampType:	CCV	Run ID:	GC4_060925A	Analysis Date:	9/25/2006 4:37:37 PM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	5.57	0.200	5.000	0	111	85	115			
Surr: Tetrachlorethene	0.403		0.4000		101	74	138			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_060922B

Sample ID	**0609126-01A DUP**	Batch ID:	**PMOIST-09/25/06B**	TestNo:	**D2216**	Units:	**WT%**
SampType:	**DUP**	Run ID:	**PMOIST_060922B**	Analysis Date:	**9/25/2006 8:25:00 AM**	Prep Date:	**9/22/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	Low Limit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	14.5	0	0	13.69				5.86	30	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection L
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0609126
Project: Sii Drilco Hobbs Facility

MQL SUMMARY REPORT

TestNo: M8015D	MDL	MQL
Analyte	mg/Kg	mg/Kg
TPH-DRO C10-C28	3.00	10.0
TPH-ORO >C28-C35	3.00	10.0

TestNo: M8015V	MDL	MQL
Analyte	mg/Kg	mg/Kg
Gasoline Range Organics	0.0600	0.200

Qualifiers MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL ANALYTICAL

October 17, 2006

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0610065

RE: Hobbs, NM-Drilco-Remed

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 1 sample(s) on 10/11/2006 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Hobbs, NM-Drilco-Remed (DHL Work Order 0610065) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9
• Work Order Summary	10
• Preparation Dates Report	11
• Analytical Dates Report	12
• Sample Results	13
• QC Summary Report	14-18
• MQL Summary Report	19
• Total Number of Pages	19

October 17, 2006

Approved: _____
John DuPont

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 30741

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc
ADDRESS: P.O. Box 60068, Houston, TX 77205
PHONE: 281-233-5401 FAX 281-233-5600
DATA REPORTED TO: Lee Davis, K. Lampi (3-D)
ADDITIONAL REPORT COPIES TO: mail - Lee Davis

DATE: 10/10/06 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 061065
PROJECT LOCATION OR NAME: Hobbs, NM - Drilco - Remac
CLIENT PROJECT #: COLLECTOR: L. Davis

Authorize 5% surcharge for TRRP report? ☐ Yes ☐ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☐ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐ | Arsenic

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	BTEX ☐ MTBE ☐	TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐	GASOLINE MOD 8015 ☐	DIESEL - MOD 8015 ☐	VOC 8260 ☐	SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐	8081 PESTICIDES ☐ 8151 HERBICIDES ☐	8082 PCBS ☐	TCLP - METALS (RCRA) ☐ TCLP VOC ☐	TCLP - PEST ☐ HERB ☐ Semi-VOC ☐	TOTAL METALS (RCRA) ☐ OTHER LIST ☐	LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐	RCI ☐ TOX ☐ FLASHPOINT ☐	TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐	pH ☐ HEXAVALENT CHROMIUM ☐	EXPLOSIVES ☐ PECHLORATE ☐	CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐	Arsenic	FIELD NOTES
NM-HB-DRL-BF3-1	01	10/10/06	14:10	S	Clear Glass Wide 402	2				✓		✓																		✓	

TOTAL

RELINQUISHED BY: (Signature) L. Davis DATE/TIME 10/10/06 17:40 RECEIVED BY: (Signature) FedEx

RELINQUISHED BY: (Signature) FedEx DATE/TIME 10.11.06 854 RECEIVED BY: (Signature)

RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☐
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 4.4°C THERM #: 42
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FedEx
☐ APC DELIVERY
☐ HAND DELIVERED

137

200

FedEx Express **USA Airbill**

FedEx Tracking Number 8432 1350 4915

0215 **Recipient's Copy**

1 From This portion can be removed for Recipient's records.

Date 10/10/00 FedEx Tracking Number 843213504915

Sender's Name Lee Davis Phone 281 [illegible]

Company Smith International Inc

Address P.O. Box 60068

Dept./Floor/Suite/Room

City Houston State TX ZIP 772[illegible]

RECIPIENT: PEEL HERE

NO POUCH NEEDED.
See back for peel and stick application instructions.

2 Your Internal Billing Reference Rubber - Drilco

3 To

Recipient's Name Michele Dejoie Phone 512 388-8222

Company DHL ANALYTICAL

Address 8500 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City ROUND ROCK State TX ZIP 78664-3801

8432 1350 4915

0264205162

4a Express Package Service *Packages up to 150 lbs.* Delivery commitment may be later in some areas.

- [x] FedEx Priority Overnight — Next business morning
- [ ] FedEx Standard Overnight — Next business afternoon
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations
- [ ] FedEx 2Day — Second business day
- [ ] FedEx Express Saver — Third business day

FedEx Envelope rate not available. Minimum charge: One-pound rate

4b Express Freight Service *Packages over 150 lbs.* Delivery commitment may be later in some areas.

- [ ] FedEx 1Day Freight* — Next business day
- [ ] FedEx 2Day Freight — Second business day
- [ ] FedEx 3Day Freight — Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak
- [x] Other

6 Special Handling Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes
- [ ] HOLD Weekday at FedEx Location — Not available for FedEx First Overnight
- [ ] HOLD Saturday at FedEx Location — Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [ ] Sender — Acct. No. in Section 1 will be billed.
- [x] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

745

Total Packages	Total Weight	Total Charges
1		Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

SEAL [illegible]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 10/11/2006

Work Order Number 0610065 | Received by **DU**

Checklist completed by: [signature] Signature 10.11.06 Date | Reviewed by JD Initials 10/11/06 Date

Carrier name FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

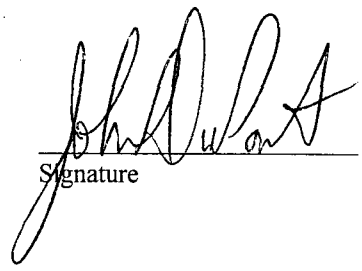
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
Michelle Green – QA Manager
John DuPont – General Manager



Signature

10/17/06

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Hobbs, NM Drilco - Remed	Date: 10-17-06
Reviewer Name: Michelle Green	Laboratory Work Order: 061065
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?			✓		
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	✓				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	✓				
		8) If required for the project, TICs reported?			✓		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?	✓				
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?	✓				
		4) Were MS/MSD RPDs within laboratory QC limits?	✓				
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	✓				
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Hobbs, NM Drilco - Remed	Date: 10-17-06
Reviewer Name: Michelle Green	Laboratory Work Order: 0610065

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**Mass Spectral Tuning:**					
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	**Internal Standards (IS):**					
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**					
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Hobbs, NM-Drilco-Remed
Lab Order: 0610065

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

Method SW6020 - Metals Analysis
Method TX1005 - Total Petroleum Hydrocarbon
Method D2216 - Percent Moisture

Exception Report R1-01

Samples were received and log-in performed on 10/11/06. A total of 1 sample was received. The samples arrived in good condition and were properly packaged.

Exception Report S9-01

For Metals analysis the RPD for the serial dilution were above control limits for Arsenic. The PDS was within control limits for this analyte therefore no further corrective actions were taken.

DATA REPORTING

Sample reports include the Sample Quantitation Limit (SQL) and the Reporting Limit (RL) for each analyte. The computer system allows for reporting SQL with 2 significant figures and the RL with 3 significant figures. Because of rounding it may sometimes appear that a "J" flagged result is lower than the SQL if the sample result is very near the SQL.

CLIENT: SMITH INTERNATIONAL
Project: Hobbs, NM-Drilco-Remed
Lab Order: 0610065

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0610065-01	NM-HB-DRL-BF3-1		10/10/2006 2:10:00 PM	10/11/2006

Lab Order: 0610065
Client: SMITH INTERNATIONAL
Project: Hobbs, NM-Drilco-Remed

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0610065-01A	NM-HB-DRL-BF3-1	10/10/2006 2:10:00 PM	Soil	TX1005	TX1005 Soil Prep	10/12/2006 10:45:28 AM	23773
	NM-HB-DRL-BF3-1	10/10/2006 2:10:00 PM	Soil	TX1005	TX1005 Soil Prep	10/12/2006 10:45:28 AM	23773
0610065-01B	NM-HB-DRL-BF3-1	10/10/2006 2:10:00 PM	Soil	D2216	Percent Moisture	10/12/2006 10:10:00 AM	PMOIST-10/12/06A
	NM-HB-DRL-BF3-1	10/10/2006 2:10:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	10/13/2006 9:00:00 AM	23778
	NM-HB-DRL-BF3-1	10/10/2006 2:10:00 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	10/13/2006 9:00:00 AM	23778

Lab Order: 0610065
Client: SMITH INTERNATIONAL
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0610065-01A	NM-HB-DRL-BF3-1	Soil	TX1005	Tx1005 TPH Soil	23773	1	10/12/2006 2:54:52 PM	GC12_061012A
	NM-HB-DRL-BF3-1	Soil	TX1005	Tx1005 TPH Soil	23773	1	10/12/2006 2:54:52 PM	GC12_061012A
0610065-01B	NM-HB-DRL-BF3-1	Soil	D2216	Percent Moisture	PMOIST-10/12/06A	1	10/12/2006 3:40:00 PM	PMOIST_061012A
	NM-HB-DRL-BF3-1	Soil	SW6020	Trace Metals: ICP-MS - Solid	23778	5	10/13/2006 7:20:00 PM	ICP-MS2_061013A
	NM-HB-DRL-BF3-1	Soil	SW6020	Trace Metals: ICP-MS - Solid	23778	5	10/13/2006 7:20:00 PM	ICP-MS2_061013A

DHL Analytical

Date: *17-Oct-06*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-BF3-1
Project:	Hobbs, NM-Drilco-Remed	**Lab ID:**	0610065-01
Project No:		**Collection Date:**	10/10/2006 2:10:00 PM
Lab Order:	0610065	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TX1005 TPH SOIL		**TX1005**					Analyst: **JAW**
T/R Hydrocarbons: C6-C12	ND	7.29	20.8		mg/Kg-dry	1	10/12/2006 2:54:52 PM
T/R Hydrocarbons: >C12-C28	ND	7.29	20.8		mg/Kg-dry	1	10/12/2006 2:54:52 PM
T/R Hydrocarbons: >C28-C35	ND	7.29	20.8		mg/Kg-dry	1	10/12/2006 2:54:52 PM
T/R Hydrocarbons: C6-C35	ND	7.29	20.8		mg/Kg-dry	1	10/12/2006 2:54:52 PM
Surr: 1-Chlorooctane	98.6	0	70-130		%REC	1	10/12/2006 2:54:52 PM
Surr: Octacosane	99.5	0	70-130		%REC	1	10/12/2006 2:54:52 PM
TRACE METALS: ICP-MS - SOLID		**SW6020**					Analyst: **JWC**
Arsenic	4.60	0.494	0.988		mg/Kg-dry	5	10/13/2006 7:20:00 PM
PERCENT MOISTURE		**D2216**					Analyst: **JBC**
Percent Moisture	9.63	0	0	N	WT%	1	10/12/2006 3:40:00 PM

Qualifiers:

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0610065
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_061012A

Sample ID: **LCS-23773**	Batch ID: **23773**	TestNo: **TX1005**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 2:18:51 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	235	20.0	250.0	0	93.9	75	125			
Surr: 1-Chlorooctane	25.6		25.00		102	70	130			
Surr: Octacosane	24.6		25.00		98.5	70	130			

Sample ID: **MB-23773**	Batch ID: **23773**	TestNo: **TX1005**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 2:36:51 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	ND	20.0								
T/R Hydrocarbons: >C12-C28	ND	20.0								
T/R Hydrocarbons: >C28-C35	ND	20.0								
T/R Hydrocarbons: C6-C35	ND	20.0								
Surr: 1-Chlorooctane	22.0		25.00		88.0	70	130			
Surr: Octacosane	22.7		25.00		90.9	70	130			

Sample ID: **0610066-02BMS**	Batch ID: **23773**	TestNo: **TX1005**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 3:50:25 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	259	21.1	263.3	0	98.4	75	125			
Surr: 1-Chlorooctane	27.6		26.33		105	70	130			
Surr: Octacosane	25.1		26.33		95.3	70	130			

Sample ID: **0610066-02BMSD**	Batch ID: **23773**	TestNo: **TX1005**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 3:59:25 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C35	232	20.7	258.9	0	89.6	75	125	11.1	20	
Surr: 1-Chlorooctane	25.1		25.89		96.8	70	130	0	0	
Surr: Octacosane	23.1		25.89		89.4	70	130	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0610065
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GC12_061012A

Sample ID: **ICV-061012**	Batch ID: **R28361**	TestNo: **TX1005**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 2:09:51 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	469	20.0	0							
T/R Hydrocarbons: >C12-C28	547	20.0	0							
T/R Hydrocarbons: >C28-C35	0.163	20.0	0							
T/R Hydrocarbons: C6-C35	1020	20.0	1000	0	102	75	125			
Surr: 1-Chlorooctane	59.3		50.00		119	70	130			
Surr: Octacosane	49.4		50.00		98.8	70	130			

Sample ID: **CCV1-061012**	Batch ID: **R28361**	TestNo: **TX1005**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 4:17:23 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	231	20.0	0							
T/R Hydrocarbons: >C12-C28	269	20.0	0							
T/R Hydrocarbons: >C28-C35	0.0287	20.0	0							
T/R Hydrocarbons: C6-C35	500	20.0	500.0	0	99.9	75	125			
Surr: 1-Chlorooctane	28.9		25.00		116	70	130			
Surr: Octacosane	23.7		25.00		94.8	70	130			

Sample ID: **CCV2-061012**	Batch ID: **R28361**	TestNo: **TX1005**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **GC12_061012A**	Analysis Date: **10/12/2006 6:14:20 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C12	236	20.0	0							
T/R Hydrocarbons: >C12-C28	267	20.0	0							
T/R Hydrocarbons: >C28-C35	0.0946	20.0	0							
T/R Hydrocarbons: C6-C35	504	20.0	500.0	0	101	75	125			
Surr: 1-Chlorooctane	28.8		25.00		115	70	130			
Surr: Octacosane	21.8		25.00		87.0	70	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: *0610065*
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_061013A

Sample ID: **MB-23778**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:09:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								

Sample ID: **LCS-23778**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:13:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.6	1.00	50.00	0	89.2	80	120			

Sample ID: **LCSD-23778**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:17:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	44.8	1.00	50.00	0	89.6	80	120	0.391	25	

Sample ID: **0610065-01B SD**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType: **SD**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:24:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	5.25	4.94	0	4.602				13.2	10	R

Sample ID: **0610065-01B MS**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:28:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	48.7	0.971	48.53	4.602	90.9	80	120			

Sample ID: **0610065-01B MSD**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:32:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	47.8	0.988	49.40	4.602	87.4	80	120	1.88	25	

Sample ID: **0610065-01B PDS**	Batch ID: **23778**	TestNo: **SW6020**	Units: **mg/Kg-dry**
SampType: **PDS**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:36:00 PM**	Prep Date: **10/13/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.9	0.988	49.40	4.602	97.8	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0610065
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_061013A

Sample ID: **ICV1-061013**	Batch ID: **R28392**	TestNo: **SW6020**	Units: **µg/L**
SampType: **ICV**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 1:31:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	103	6.00	100.0	0	103	90	110			

Sample ID: **CCV7-061013**	Batch ID: **R28392**	TestNo: **SW6020**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 6:57:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190	6.00	200.0	0	94.8	90	110			

Sample ID: **CCV8-061013**	Batch ID: **R28392**	TestNo: **SW6020**	Units: **µg/L**
SampType: **CCV**	Run ID: **ICP-MS2_061013A**	Analysis Date: **10/13/2006 7:55:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	190	6.00	200.0	0	95.0	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0610065
Project: Hobbs, NM-Drilco-Remed

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_061012A

Sample ID: **0610071-02A DUP**	Batch ID: **PMOIST-10/12/06A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_061012A**	Analysis Date: **10/12/2006 3:40:00 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	3.47	0	0	3.457				0.504	30	N

Sample ID: **0610072-08A DUP**	Batch ID: **PMOIST-10/12/06A**	TestNo: **D2216**	Units: **WT%**
SampType: **DUP**	Run ID: **PMOIST_061012A**	Analysis Date: **10/12/2006 3:40:00 PM**	Prep Date: **10/12/2006**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	23.6	0	0	24.18				2.37	30	N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0610065
Project: Hobbs, NM-Drilco-Remed

MQL SUMMARY REPORT

TestNo: TX1005	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
T/R Hydrocarbons: C6-C12	7.00	20.0
T/R Hydrocarbons: >C12-C28	7.00	20.0
T/R Hydrocarbons: >C28-C35	7.00	20.0
T/R Hydrocarbons: C6-C35	7.00	20.0

TestNo: SW6020	MDL	MQL
Analyte	**mg/Kg**	**mg/Kg**
Arsenic	0.500	1.00

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

DHL ANALYTICAL

March 22, 2007

Lee Davis/Kurt Lampi
SMITH INTERNATIONAL
P.O. Box 60068
Houston, Texas 77205-0068

TEL: (281) 233-5401
FAX (281) 233-5620

Order No.: 0703121

RE: Sii Drilco Hobbs Remed

Dear Lee Davis/Kurt Lampi:

DHL Analytical received 2 sample(s) on 3/15/2007 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-06-TX

DHL ANALYTICAL

TABLE OF CONTENTS

This report for Smith International: Sii Drilco Hobbs Remed (DHL Work Order 0703121) contains the following information:

ITEM	Page
• Cover Page	1
• Table of Contents	2
• Original chain of custody, fedex slip (if used), log-in checklist	3-5
• Laboratory Data Package Signature Page	6
• Laboratory Review Checklist	7-8
• Case Narrative	9-10
• Work Order Summary	11
• Preparation Dates Report	12
• Analytical Dates Report	13
• Sample Results	14-17
• QC Summary Report	18-37
• MQL Summary Report	38
• Total Number of Pages	38

March 22, 2007

Approved: _____
John DuPont

2300 Double Creek Drive • Round Rock, TX 78664 • Phone (512) 388-8222 • FAX (512) 388-8229
www.dhlanalytical.com

Fed Ex 8432 1350 5110

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 21650

CHAIN-OF-CUSTODY

CLIENT: Smith International, Inc
ADDRESS: P.O. Box 60068, Houston, TX 77205-0068
PHONE: 281-233-5401 FAX 281-233-5620
DATA REPORTED TO: Lee Davis & K. Lampi (mail & e-mail)
ADDITIONAL REPORT COPIES TO: Tyra Blackshear (e-mail)

DATE: 3/14/07 PAGE 1 OF 1
PO #: — DHL WORK ORDER #: 0703121
PROJECT LOCATION OR NAME: Sil Drilco Hobbs Remed
CLIENT PROJECT #: NM-HB-DRL COLLECTOR: L. Davis

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

PRESERVATION: HCl, HNO_3, H_2SO_4 ☐ NaOH ☐, ICE, UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ | TRPH 418.1 ☐ TPH 1005 ☐ TPH 1006 ☐ | GASOLINE MOD 8015 ☐ | DIESEL - MOD 8015 ☐ | VOC 8260 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLDPAH ☐ | 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ | 8082 PCBS ☐ | TCLP - METALS (RCRA) ☐ TCLP VOC ☑ | TCLP - PEST ☐ HERB ☐ Semi-VOC ☑ | TOTAL METALS (RCRA) ☐ OTHER LIST ☐ | LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ | RCI ☑ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐ | pH ☐ HEXAVALENT CHROMIUM ☐ | EXPLOSIVES ☐ PECHLORATE ☐ | CHLORIDE ☐ ANIONS ☐ ALKALINITY ☐

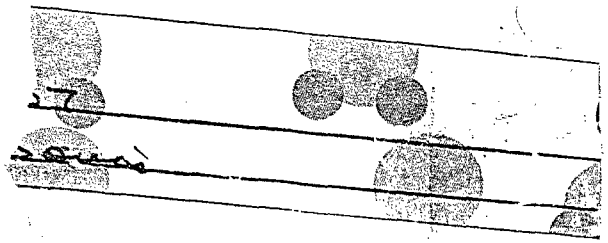
Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	TCLP - METALS (RCRA) ☐ TCLP VOC ☑	TCLP - PEST ☐ HERB ☐ Semi-VOC ☑	RCI ☑ TOX ☐	FIELD NOTES
NM-HB-DRL-SP2-1	01	3/14/07	14:25	S	glass, wide	3				✓		X	X	X	
NM-HB-DRL-SP3-1	02	3/14/07	14:35	S	glass, wide	3				✓		X	X	X	
TOTAL															

RELINQUISHED BY: (Signature) L. Davis DATE/TIME 3/14/07 17:35 RECEIVED BY: (Signature) Fed Ex
RELINQUISHED BY: (Signature) Fed Ex DATE/TIME 3.15.07 900 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☑
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 5.8°C THERM #: 57
CUSTODY SEALS - ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL # FX
☐ APC DELIVERY
☐ HAND DELIVERED





78664-1

8432

Part # 156297-435 RIT 07/06

FedEx PRIORITY OVERNIGHT THU

Deliver By:
15MAR07
A1

531300 14MAR07

8432 1350 5110 FORM 0215

78664 -TX -US

AUS

XH BSMA

157

200

FedEx Express USA Airbill

FedEx Tracking Number 8432 1350 5110

NO POUCH NEEDED.
See back for peel and stick application instructions.

RECIPIENT: PEEL HERE

1 From This portion can be removed for Recipient's records.

Date / / FedEx Tracking Number 843213505110

Sender's Name [illegible] Phone 281 [illegible]

Company Sr. International, Inc.

Address P.O. Box 60068

Dept./Floor/Suite/Room

City Houston State TX ZIP 77205-0068

2 Your Internal Billing Reference

3 To

Recipient's Name [illegible] Phone 512 386-6252

Company [illegible] ANALYTICAL

Address 9700 DOUBLE CREEK DR

To "HOLD" at FedEx location, print FedEx address. We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Dept./Floor/Suite/Room

City State TX ZIP 78664-3201

8432 1350 5110

4a Express

[X] FedEx Prio Next business m

[ ] FedEx 2Day Second business FedEx Envelo

4b Express F[illegible] *Packages over 150 lbs.* Delivery commitment may be later in some areas.

[ ] FedEx 1Day Freight* Next business day

[ ] FedEx 2Day Freight Second business day

[ ] FedEx 3Day Freight Third business day

* Call for Confirmation:

5 Packaging * Declared value limit $500

[ ] FedEx Envelope* [ ] FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak [X] Other

6 Special Handling Include FedEx address in Section 3

[ ] **SATURDAY Delivery** Available only for FedEx Priority Overnight and FedEx 2Day to select ZIP codes

[ ] **HOLD Weekday** at FedEx Location Not available for FedEx First Overnight

[ ] **HOLD Saturday** at FedEx Location Available only for FedEx Priority Overnight and FedEx 2Day to select locations

Does this shipment contain dangerous goods?

One box must be checked.

[X] No [ ] Yes As per attached Shipper's Declaration [ ] Yes Shipper's Declaration not required [ ] Dry Ice Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous Goods (including Dry Ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

[ ] Sender Acct. No. in Section 1 will be billed. [ ] Recipient [ ] Third Party [ ] Credit Card [ ] Cash/Check

Total Packages	Total Weight	Total Charges
1		Credit Card Auth.

Our liability is limited to $100 unless you declare a higher value. See the *FedEx Service Guide* for details.

8 Release Signature *Sign to authorize delivery without obtaining signature.*

By signing you authorize us to deliver this shipment without obtaining a signature and agree to indemnify and hold us harmless from any resulting claims.

Questions? Visit our Web site at fedex.com or call 1.800.Go.FedEx® 800.463.3339.

SRF • Rev. Date 5/03 • Part #157610 • ©1994–2003 FedEx • PRINTED IN U.S.A.

447

DHL Analytical

Sample Receipt Checklist

Client Name SMITH INTERNATIONAL | Date Received: 3/15/2007

Work Order Number 0703121 | Received by: **DU**

Checklist completed by: [signature] 3.15.07 (Signature / Date) | Reviewed by (JD) (Initials) 03/15/07 (Date)

Carrier name: FedEx 1day

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

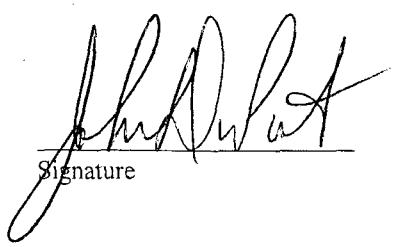
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
- R2 Sample identification cross-reference;
- R3 Test reports (analytical data sheets) for each environmental sample that includes:
  - a) Items consistent with NELAC 5.13
  - b) dilution factors,
  - c) preparation methods,
  - d) cleanup methods, and
  - e) if required for the project, tentatively identified compounds (TICs).
- R4 Surrogate recovery data including:
  - a) Calculated recovery (%R), and
  - b) The laboratory's surrogate QC limits.
- R5 Test reports/summary forms for blank samples;
- R6 Test reports/summary forms for laboratory control samples (LCSs) including:
  - a) LCS spiking amounts,
  - b) Calculated %R for each analyte, and
  - c) The laboratory's LCS QC limits.
- R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
  - a) Samples associated with the MS/MSD clearly identified,
  - b) MS/MSD spiking amounts,
  - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
  - d) Calculated %Rs and relative percent differences (RPDs), and
  - e) The laboratory's MS/MSD QC limits
- R8 Laboratory analytical duplicate (if applicable) recovery and precision:
  - a) the amount of analyte measured in the duplicate,
  - b) the calculated RPD, and
  - c) the laboratory's QC limits for analytical duplicates.
- R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
- R10 Other problems or anomalies.

The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By me signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager



Signature

03/22/07

Date

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Sii Drilco Hobbs Remed	Date: 3/22/07
Reviewer Name: Laura Shaw	Laboratory Work Order: 0703121
Prep Batch Number(s): See Prep Dates Report	Run Batch: See Analytical Dates Report

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
		Chain-of-Custody (C-O-C)					
R1	OI	1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	✓				R1-01
		2) Were all departures from standard conditions described in an exception report?	✓				
R2	OI	**Sample and Quality Control (QC) Identification**					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	✓				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	✓				
R3	OI	**Test Reports**					
		1) Were all samples prepared and analyzed within holding times?	✓				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	✓				
		3) Were calculations checked by a peer or supervisor?	✓				
		4) Were all analyte identifications checked by a peer or supervisor?	✓				
		5) Were sample quantitation limits reported for all analytes not detected?	✓				
		6) Were all results for soil and sediment samples reported on a dry weight basis?			✓		
		7) Were % moisture (or solids) reported for all soil and sediment samples?			✓		
		8) If required for the project, TICs reported?			✓		
R4	O	**Surrogate Recovery Data**					
		1) Were surrogates added prior to extraction?	✓				
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?		✓			R4-02
R5	OI	**Test Reports/Summary Forms for Blank Samples**					
		1) Were appropriate type(s) of blanks analyzed?	✓				
		2) Were blanks analyzed at the appropriate frequency?	✓				
		3) Where method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	✓				
		4) Were blank concentrations < MQL?	✓				
R6	OI	**Laboratory Control Samples (LCS):**					
		1) Were all COCs included in the LCS?	✓				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	✓				
		3) Were LCSs analyzed at the required frequency?	✓				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	✓				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	✓				
		6) Was the LCSD RPD within QC limits (if applicable)?	✓				
R7	OI	**Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data**					
		1) Were the project/method specified analytes included in the MS and MSD?	✓				
		2) Were MS/MSD analyzed at the appropriate frequency?	✓				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		✓			R7-03 LS
		4) Were MS/MSD RPDs within laboratory QC limits?	✓	~~✓~~ 3/22/07 LS			~~R7-04~~ 3/22/07
R8	OI	**Analytical Duplicate Data**					
		1) Were appropriate analytical duplicates analyzed for each matrix?	✓				
		2) Were analytical duplicates analyzed at the appropriate frequency?	✓				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	✓				
R9	OI	**Method Quantitation Limits (MQLs):**					
		1) Are the MQLs for each method analyte included in the laboratory data package?	✓				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	✓				
		3) Are unadjusted MQLs included in the laboratory data package?	✓				
R10	OI	**Other Problems/Anomalies**					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER? LS 3/22/07	✓	✓			R10-01
		2) Were all necessary corrective actions performed for the reported data?	✓				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 *O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).*

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Sii Drilco Hobbs Remed | Date: 3/22/07

Reviewer Name: Laura Shaw | Laboratory Work Order: 0703121

#[1]	A[2]	Description	Yes	No	NA[3]	NR[4]	ER#[5]
S1	OI	**Initial Calibration (ICAL)**					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	✓				
		2) Were percent RSDs or correlation coefficient criteria met?	✓				
		3) Was the number of standards recommended in the method used for all analytes?	✓				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	✓				
		5) Are ICAL data available for all instruments used?	✓				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	✓				
S2	OI	**Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):**					
		1) Was the CCV analyzed at the method-required frequency?	✓				
		2) Were percent differences for each analyte within the method-required QC limits?	✓				
		3) Was the ICAL curve verified for each analyte?	✓				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	✓				
S3	O	**Mass Spectral Tuning:**	✓				
		1) Was the appropriate compound for the method used for tuning?	✓				
		2) Were ion abundance data within the method-required QC limits?	✓				
S4	O	**Internal Standards (IS):**	✓				
		1) Were IS area counts and retention times within the method-required QC limits?	✓				
S5	OI	**Raw Data (NELAC section 1 appendix A glossary, and section 5.12)**					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	✓				
		2) Were data associated with manual integrations flagged on the raw data?	✓				
S6	O	**Dual Column Confirmation**					
		1) Did dual column confirmation results meet the method-required QC?			✓		
S7	O	**Tentatively Identified Compounds (TICs):**					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			✓		
S8	I	**Interference Check Sample (ICS) Results:**					
		1) Were percent recoveries within method QC limits?	✓				
S9	I	**Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions**					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?		✓			S9-01
S10	OI	**Method Detection Limit (MDL) Studies**					
		1) Was a MDL study performed for each reported analyte?	✓				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	✓				
S11	OI	**Proficiency Test Reports:**					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	✓				
S12	OI	**Standards Documentation**					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	✓				
S13	OI	**Compound/Analyte Identification Procedures**					
		1) Are the procedures for compound/analyte identification documented?	✓				
S14	OI	**Demonstration of Analyst Competency (DOC)**					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	✓				
		2) Is documentation of the analyst's competency up-to-date and on file?	✓				
S15	OI	**Verification/Validation Documentation for Methods** (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	✓				
S16	OI	**Laboratory Standard Operating Procedures (SOPs):**	✓				
		1) Are laboratory SOPs current and on file for each method performed?	✓				

1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.

2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).

3 NA = Not applicable.

4 NR = Not Reviewed.

5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Remed
Lab Order: 0703121

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Method SW1311/7470A - TCLP Mercury Analysis
Method SW1311/6020 - TCLP Metals Analysis
Method SW1311/8260B- TCLP Volatiles Analysis
Method SW1311/8270C - TCLP Semi-volatiles Analysis
Method SW1010 - Ignitability
Method SW9045C - pH of Solid (Corrosivity)
Method Reactivity - Reactivity (Cyanide and Sulfide)

Exception Report R1-01

The sample was received and log-in performed on 3/15/2007. A total of 2 samples were received. The samples arrived in good condition and were properly packaged.

Exception Report R4-02

For TCLP Semi-volatiles analysis, the surrogate recovery for the method blank was below control limits for 4-Terphenyl-d14. This is flagged accordingly in the QC summary report. No further corrective actions were required and no sample results were adversely affected.

Exception Report R7-03

For TCLP Metals analysis, the recoveries for the matrix spike and matrix spike duplicate were below control limits for Silver. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this analyte. No further corrective actions were required and no sample results were adversely affected.

For TCLP Volatiles analysis, the recovery for the matrix spike was slightly below the control limits for Trichloroethene. This is flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for this compound. No further corrective actions were required and no sample results were adversely affected.

Exception Report R10-01

All of the samples had results that were below TCLP or RCRA characterization limits and are therefore, non-hazardous for the parameters that were analyzed.

CLIENT:	SMITH INTERNATIONAL
Project:	Sii Drilco Hobbs Remed
Lab Order:	0703121

CASE NARRATIVE

Exception Report S9-01

For TCLP Metals analysis, the RPD for the serial dilution was above control limits for Barium, Cadmium, and Lead. These are flagged accordingly in the QC summary report. The PDS was within control limits for these analytes therefore no further corrective actions were required.

DHL Analytical

Date: *22-Mar-07*

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Remed
Lab Order: 0703121

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recved
0703121-01	NM-HB-DRL-SP2-1		03/14/07 02:25 PM	3/15/2007
0703121-02	NH-HB-DRL-SP3-1		03/14/07 02:35 PM	3/15/2007

Lab Order: 0703121
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Remed

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0703121-01A	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW5030B	Purge and Trap Water GC/MS	03/19/07 10:29 AM	25278
0703121-01B	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	03/16/07 09:56 AM	25262
	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	03/19/07 08:45 AM	25273
	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW7470A	Mercury Aq Prep, Total	03/16/07 01:29 PM	25268
0703121-01C	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW1010	Ignitability	03/20/07	IGN_S-03/20/07
	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	SW9045C	pH of Solid (Corrosivity)	03/20/07	PH_S-03/20/07
	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	Reactivity	Reactivity Prep	03/19/07 02:15 PM	25284
	NM-HB-DRL-SP2-1	03/14/07 02:25 PM	Soil	Reactivity	Reactivity Prep	03/19/07 02:15 PM	25284
0703121-02A	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW5030B	Purge and Trap Water GC/MS	03/19/07 10:29 AM	25278
0703121-02B	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW3005A	Aq Prep Metals : ICP-MS	03/16/07 09:56 AM	25262
	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW3510C	Aq Prep Sep Funnel: BNA	03/19/07 08:45 AM	25273
	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW7470A	Mercury Aq Prep, Total	03/16/07 01:29 PM	25268
0703121-02C	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW1010	Ignitability	03/20/07	IGN_S-03/20/07
	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	SW9045C	pH of Solid (Corrosivity)	03/20/07	PH_S-03/20/07
	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	Reactivity	Reactivity Prep	03/19/07 02:15 PM	25284
	NH-HB-DRL-SP3-1	03/14/07 02:35 PM	Soil	Reactivity	Reactivity Prep	03/19/07 02:15 PM	25284

DHL Analytical

22-Mar-07

Lab Order: 0703121
Client: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Remed

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0703121-01A	NM-HB-DRL-SP2-1	Soil	SW1311/8260B	TCLP Volatiles	25278	10	03/19/07 01:11 PM	GCMS5_070319B
0703121-01B	NM-HB-DRL-SP2-1	Soil	SW1311/7470A	TCLP Mercury	25268	1	03/20/07 09:32 AM	CETAC_HG_070320A
	NM-HB-DRL-SP2-1	Soil	SW1311/6020	TCLP Metals	25262	1	03/19/07 03:28 PM	ICP-MS3_070319A
	NM-HB-DRL-SP2-1	Soil	SW1311/8270C	TCLP Semi-Volatiles	25273	1	03/20/07 04:07 PM	GCMS3_070320A
0703121-01C	NM-HB-DRL-SP2-1	Soil	SW1010	Ignitability	IGN_S-03/20/07	1	03/20/07 10:15 AM	IGN_070320A
	NM-HB-DRL-SP2-1	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-03/20/07	1	03/20/07 01:45 PM	PH_070320A
	NM-HB-DRL-SP2-1	Soil	Reactivity	Reactivity (Cyanide & Sulfide)	25284	1	03/19/07 03:00 PM	WC_070319A
	NM-HB-DRL-SP2-1	Soil	Reactivity	Reactivity (Cyanide & Sulfide)	25284	2	03/19/07 04:55 PM	UV/VIS_2_070319B
0703121-02A	NH-HB-DRL-SP3-1	Soil	SW1311/8260B	TCLP Volatiles	25278	10	03/19/07 01:35 PM	GCMS5_070319B
0703121-02B	NH-HB-DRL-SP3-1	Soil	SW1311/7470A	TCLP Mercury	25268	1	03/20/07 09:34 AM	CETAC_HG_070320A
	NH-HB-DRL-SP3-1	Soil	SW1311/6020	TCLP Metals	25262	1	03/19/07 03:32 PM	ICP-MS3_070319A
	NH-HB-DRL-SP3-1	Soil	SW1311/8270C	TCLP Semi-Volatiles	25273	1	03/20/07 04:42 PM	GCMS3_070320A
0703121-02C	NH-HB-DRL-SP3-1	Soil	SW1010	Ignitability	IGN_S-03/20/07	1	03/20/07 10:15 AM	IGN_070320A
	NH-HB-DRL-SP3-1	Soil	SW9045C	pH of Solid (Corrosivity)	PH_S-03/20/07	1	03/20/07 01:45 PM	PH_070320A
	NH-HB-DRL-SP3-1	Soil	Reactivity	Reactivity (Cyanide & Sulfide)	25284	1	03/19/07 04:00 PM	WC_070319A
	NH-HB-DRL-SP3-1	Soil	Reactivity	Reactivity (Cyanide & Sulfide)	25284	2	03/19/07 04:56 PM	UV/VIS_2_070319B

DHL Analytical

Date: *22-Mar-07*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NM-HB-DRL-SP2-1
Project:	Sii Drilco Hobbs Remed	**Lab ID:**	0703121-01
Project No:	NM-HB-DRL	**Collection Date:**	03/14/07 02:25 PM
Lab Order:	0703121	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TCLP MERCURY		**SW1311/7470A**					Analyst: **KDT**
Mercury	ND	0.000800	0.00200		mg/L	1	03/20/07 09:32 AM
TCLP METALS		**SW1311/6020**					Analyst: **JWC**
Arsenic	0.0578	0.0200	0.0600	J	mg/L	1	03/19/07 03:28 PM
Barium	1.10	0.0300	0.100		mg/L	1	03/19/07 03:28 PM
Cadmium	0.00414	0.00300	0.0100	J	mg/L	1	03/19/07 03:28 PM
Chromium	ND	0.0200	0.0600		mg/L	1	03/19/07 03:28 PM
Lead	0.0104	0.00300	0.0100		mg/L	1	03/19/07 03:28 PM
Selenium	ND	0.0200	0.0600		mg/L	1	03/19/07 03:28 PM
Silver	ND	0.0100	0.0200		mg/L	1	03/19/07 03:28 PM
TCLP SEMI-VOLATILES		**SW1311/8270C**					Analyst: **DO**
1,4-Dichlorobenzene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
2,4,5-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
2,4,6-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
2,4-Dinitrotoluene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
2-Methylphenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
3&4-Methylphenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
Hexachlorobenzene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
Hexachlorobutadiene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
Hexachloroethane	ND	0.0100	0.0400		mg/L	1	03/20/07 04:07 PM
Nitrobenzene	ND	0.0200	0.0400		mg/L	1	03/20/07 04:07 PM
Pentachlorophenol	ND	0.0200	0.0400		mg/L	1	03/20/07 04:07 PM
Pyridine	ND	0.0400	0.100		mg/L	1	03/20/07 04:07 PM
Surr: 2,4,6-Tribromophenol	116	0	75-144		%REC	1	03/20/07 04:07 PM
Surr: 2-Fluorobiphenyl	100	0	64-136		%REC	1	03/20/07 04:07 PM
Surr: 2-Fluorophenol	95.2	0	40-119		%REC	1	03/20/07 04:07 PM
Surr: 4-Terphenyl-d14	85.2	0	67-145		%REC	1	03/20/07 04:07 PM
Surr: Nitrobenzene-d5	107	0	53-130		%REC	1	03/20/07 04:07 PM
Surr: Phenol-d6	102	0	30-130		%REC	1	03/20/07 04:07 PM
TCLP VOLATILES		**SW1311/8260B**					Analyst: **WC**
1,1-Dichloroethene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:11 PM
1,2-Dichloroethane	ND	0.00300	0.0100		mg/L	10	03/19/07 01:11 PM
1,4-Dichlorobenzene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:11 PM
2-Butanone	ND	0.0500	0.150		mg/L	10	03/19/07 01:11 PM
Benzene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:11 PM
Carbon tetrachloride	ND	0.00200	0.0100		mg/L	10	03/19/07 01:11 PM
Chlorobenzene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:11 PM
Chloroform	ND	0.00300	0.0100		mg/L	10	03/19/07 01:11 PM

Qualifiers:

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *22-Mar-07*

CLIENT: SMITH INTERNATIONAL
Project: Sii Drilco Hobbs Remed
Project No: NM-HB-DRL
Lab Order: 0703121

Client Sample ID: NM-HB-DRL-SP2-1
Lab ID: 0703121-01
Collection Date: 03/14/07 02:25 PM
Matrix: SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260B**					Analyst: **WC**
Hexachlorobutadiene	ND	0.0100	0.0300		mg/L	10	03/19/07 01:11 PM
Tetrachloroethene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:11 PM
Trichloroethene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:11 PM
Vinyl chloride	ND	0.00100	0.0100		mg/L	10	03/19/07 01:11 PM
Surr: 1,2-Dichloroethane-d4	102	0	62-139		%REC	10	03/19/07 01:11 PM
Surr: 4-Bromofluorobenzene	108	0	75-125		%REC	10	03/19/07 01:11 PM
Surr: Dibromofluoromethane	101	0	75-125		%REC	10	03/19/07 01:11 PM
Surr: Toluene-d8	114	0	75-125		%REC	10	03/19/07 01:11 PM
IGNITABILITY		**SW1010**					Analyst: **JBC**
Ignitability	> 100	0	0		°C	1	03/20/07 10:15 AM
PH OF SOLID (CORROSIVITY)		**SW9045C**					Analyst: **JBC**
pH	8.06	0	0		pH Units	1	03/20/07 01:45 PM
REACTIVITY (CYANIDE & SULFIDE)		**REACTIVITY**					Analyst: **SCS**
Reactive Cyanide	ND	0.0383	0.0958	N	mg/Kg	2	03/19/07 04:55 PM
Reactive Sulfide	ND	19.2	19.2	N	mg/Kg	1	03/19/07 03:00 PM

Qualifiers:

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *22-Mar-07*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NH-HB-DRL-SP3-1
Project:	Sii Drilco Hobbs Remed	**Lab ID:**	0703121-02
Project No:	NM-HB-DRL	**Collection Date:**	03/14/07 02:35 PM
Lab Order:	0703121	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TCLP MERCURY		**SW1311/7470A**					Analyst: **KDT**
Mercury	ND	0.000800	0.00200		mg/L	1	03/20/07 09:34 AM
TCLP METALS		**SW1311/6020**					Analyst: **JWC**
Arsenic	0.0501	0.0200	0.0600	J	mg/L	1	03/19/07 03:32 PM
Barium	0.956	0.0300	0.100		mg/L	1	03/19/07 03:32 PM
Cadmium	ND	0.00300	0.0100		mg/L	1	03/19/07 03:32 PM
Chromium	ND	0.0200	0.0600		mg/L	1	03/19/07 03:32 PM
Lead	0.0141	0.00300	0.0100		mg/L	1	03/19/07 03:32 PM
Selenium	ND	0.0200	0.0600		mg/L	1	03/19/07 03:32 PM
Silver	ND	0.0100	0.0200		mg/L	1	03/19/07 03:32 PM
TCLP SEMI-VOLATILES		**SW1311/8270C**					Analyst: **DO**
1,4-Dichlorobenzene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
2,4,5-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
2,4,6-Trichlorophenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
2,4-Dinitrotoluene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
2-Methylphenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
3&4-Methylphenol	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
Hexachlorobenzene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
Hexachlorobutadiene	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
Hexachloroethane	ND	0.0100	0.0400		mg/L	1	03/20/07 04:42 PM
Nitrobenzene	ND	0.0200	0.0400		mg/L	1	03/20/07 04:42 PM
Pentachlorophenol	ND	0.0200	0.0400		mg/L	1	03/20/07 04:42 PM
Pyridine	ND	0.0400	0.100		mg/L	1	03/20/07 04:42 PM
Surr: 2,4,6-Tribromophenol	105	0	75-144		%REC	1	03/20/07 04:42 PM
Surr: 2-Fluorobiphenyl	88.2	0	64-136		%REC	1	03/20/07 04:42 PM
Surr: 2-Fluorophenol	87.8	0	40-119		%REC	1	03/20/07 04:42 PM
Surr: 4-Terphenyl-d14	83.2	0	67-145		%REC	1	03/20/07 04:42 PM
Surr: Nitrobenzene-d5	98.0	0	53-130		%REC	1	03/20/07 04:42 PM
Surr: Phenol-d6	92.5	0	30-130		%REC	1	03/20/07 04:42 PM
TCLP VOLATILES		**SW1311/8260B**					Analyst: **WC**
1,1-Dichloroethene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:35 PM
1,2-Dichloroethane	ND	0.00300	0.0100		mg/L	10	03/19/07 01:35 PM
1,4-Dichlorobenzene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:35 PM
2-Butanone	ND	0.0500	0.150		mg/L	10	03/19/07 01:35 PM
Benzene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:35 PM
Carbon tetrachloride	ND	0.00200	0.0100		mg/L	10	03/19/07 01:35 PM
Chlorobenzene	ND	0.00200	0.0100		mg/L	10	03/19/07 01:35 PM
Chloroform	ND	0.00300	0.0100		mg/L	10	03/19/07 01:35 PM

Qualifiers:

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

DHL Analytical

Date: *22-Mar-07*

CLIENT:	SMITH INTERNATIONAL	**Client Sample ID:**	NH-HB-DRL-SP3-1
Project:	Sii Drilco Hobbs Remed	**Lab ID:**	0703121-02
Project No:	NM-HB-DRL	**Collection Date:**	03/14/07 02:35 PM
Lab Order:	0703121	**Matrix:**	SOIL

Analyses	Result	SQL	RL	Qual	Units	DF	Date Analyzed
TCLP VOLATILES		**SW1311/8260B**					Analyst: **WC**
Hexachlorobutadiene	ND	0.0100	0.0300		mg/L	10	03/19/07 01:35 PM
Tetrachloroethene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:35 PM
Trichloroethene	ND	0.00300	0.0100		mg/L	10	03/19/07 01:35 PM
Vinyl chloride	ND	0.00100	0.0100		mg/L	10	03/19/07 01:35 PM
Surr: 1,2-Dichloroethane-d4	102	0	62-139		%REC	10	03/19/07 01:35 PM
Surr: 4-Bromofluorobenzene	107	0	75-125		%REC	10	03/19/07 01:35 PM
Surr: Dibromofluoromethane	100	0	75-125		%REC	10	03/19/07 01:35 PM
Surr: Toluene-d8	114	0	75-125		%REC	10	03/19/07 01:35 PM
IGNITABILITY		**SW1010**					Analyst: **JBC**
Ignitability	> 100	0	0		°C	1	03/20/07 10:15 AM
PH OF SOLID (CORROSIVITY)		**SW9045C**					Analyst: **JBC**
pH	8.19	0	0		pH Units	1	03/20/07 01:45 PM
REACTIVITY (CYANIDE & SULFIDE)		**REACTIVITY**					Analyst: **SCS**
Reactive Cyanide	ND	0.0368	0.0921	N	mg/Kg	2	03/19/07 04:56 PM
Reactive Sulfide	ND	18.4	18.4	N	mg/Kg	1	03/19/07 04:00 PM

Qualifiers:

ND - Not Detected at the SQL
J - Analyte detected between SQL and RL
B - Analyte detected in the associated Method Blank
DF- Dilution Factor
N - Parameter not NELAC certified
See Final Page of Report for MQLs and MDLs
S - Spike Recovery outside control limits
C - Sample Result or QC discussed in Case Narrative
RL - Reporting Limit (MQL adjusted for moisture and sample size)
SQL - Sample Quantitation Limit
E - TPH pattern not Gas or Diesel Range Pattern

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_070320A

Sample ID: **MB-25268**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **MBLK**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:15:59 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.000200								

Sample ID: **LCS-25268**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **LCS**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:18:01 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00218	0.000200	0.002000	0	109	77	120			

Sample ID: **LCSD-25268**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **LCSD**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:20:03 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.00227	0.000200	0.002000	0	114	77	120	4.04	15	

Sample ID: **MB-25253 TCLP**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **MBLK**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:44:39 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00200								

Sample ID: **0703128-01D SD**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **SD**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:46:42 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.0100	0	0				0	10	

Sample ID: **0703128-01D MS**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **MS**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:48:45 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0230	0.00200	0.02000	0	115	77	120			

Sample ID: **0703128-01D MSD**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **MSD**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:50:48 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0226	0.00200	0.02000	0	113	77	120	1.75	15	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_070320A

Sample ID: **0703128-01D PDS**	Batch ID: **25268**	TestNo: **SW1311/7470A**	Units: **mg/L**
SampType: **PDS**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:52:51 AM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0274	0.00200	0.02500	0	110	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_070320A

Sample ID: **ICV-070320**	Batch ID: **R30752**	TestNo: **SW1311/7470A**	Units: **µg/L**
SampType: **ICV**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:11:53 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	4.00	0.200	4.000	0	100	90	110			

Sample ID: **CCV1-070320**	Batch ID: **R30752**	TestNo: **SW1311/7470A**	Units: **µg/L**
SampType: **CCV**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:36:26 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.92	0.200	2.000	0	96.0	90	110			

Sample ID: **CCV2-070320**	Batch ID: **R30752**	TestNo: **SW1311/7470A**	Units: **µg/L**
SampType: **CCV**	Run ID: **CETAC_HG_070320A**	Analysis Date: **3/20/2007 9:54:56 AM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	1.97	0.200	2.000	0	98.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070319A

Sample ID: **MB-25262** Batch ID: **25262** TestNo: **SW1311/6020** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:13:00 PM** Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.00600								
Barium	ND	0.0100								
Cadmium	ND	0.00100								
Chromium	ND	0.00600								
Lead	ND	0.00100								
Selenium	ND	0.00600								
Silver	ND	0.00200								

Sample ID: **MB-25253 TCLP** Batch ID: **25262** TestNo: **SW1311/6020** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:17:00 PM** Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0600								
Barium	ND	0.100								
Cadmium	ND	0.0100								
Chromium	ND	0.0600								
Lead	ND	0.0100								
Selenium	ND	0.0600								
Silver	ND	0.0200								

Sample ID: **Filter Blank-1** Batch ID: **25262** TestNo: **SW1311/6020** Units: **mg/L**
SampType: **MBLK** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:20:00 PM** Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0600								
Barium	ND	0.100								
Cadmium	ND	0.0100								
Chromium	ND	0.0600								
Lead	ND	0.0100								
Selenium	ND	0.0600								
Silver	ND	0.0200								

Sample ID: **LCS-25262** Batch ID: **25262** TestNo: **SW1311/6020** Units: **mg/L**
SampType: **LCS** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:24:00 PM** Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.178	0.00600	0.2000	0	89.0	80	120			
Barium	0.176	0.0100	0.2000	0	88.2	80	120			
Cadmium	0.190	0.00100	0.2000	0	95.0	80	120			
Chromium	0.189	0.00600	0.2000	0	94.4	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070319A

Sample ID: **LCS-25262**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **LCS**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:24:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	0.186	0.00100	0.2000	0	93.2	80	120			
Selenium	0.189	0.00600	0.2000	0	94.7	80	120			
Silver	0.164	0.00200	0.2000	0	82.1	80	120			

Sample ID: **LCSD-25262**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **LCSD**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:28:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.170	0.00600	0.2000	0	84.8	80	120	4.78	15	
Barium	0.168	0.0100	0.2000	0	84.2	80	120	4.64	15	
Cadmium	0.182	0.00100	0.2000	0	90.8	80	120	4.58	15	
Chromium	0.176	0.00600	0.2000	0	87.9	80	120	7.08	15	
Lead	0.179	0.00100	0.2000	0	89.3	80	120	4.27	15	
Selenium	0.181	0.00600	0.2000	0	90.3	80	120	4.76	15	
Silver	0.164	0.00200	0.2000	0	81.8	80	120	0.427	15	

Sample ID: **0703116-01A SD**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **SD**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:35:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0	0.300	0	0				0	10	
Barium	0.299	0.500	0	0.2561				15.4	10	R
Cadmium	0.0168	0.0500	0	0.01510				10.7	10	R
Chromium	0	0.300	0	0				0	10	
Lead	2.61	0.0500	0	2.251				14.8	10	R
Selenium	0	0.300	0	0				0	10	
Silver	0	0.100	0	0				0	10	

Sample ID: **0703116-01A MS**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **MS**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:39:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.82	0.0600	2.000	0	90.8	80	120			
Barium	1.95	0.100	2.000	0.2561	84.5	80	120			
Cadmium	1.77	0.0100	2.000	0.01510	87.9	80	120			
Chromium	1.72	0.0600	2.000	0	86.0	80	120			
Lead	3.94	0.0100	2.000	2.251	84.5	80	120			
Selenium	1.90	0.0600	2.000	0	94.9	80	120			
Silver	1.47	0.0200	2.000	0	73.4	80	120			S

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070319A

Sample ID: **0703116-01A MSD**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **MSD**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:43:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.84	0.0600	2.000	0	91.8	80	120	1.09	15	
Barium	1.98	0.100	2.000	0.2561	86.3	80	120	1.88	15	
Cadmium	1.81	0.0100	2.000	0.01510	89.9	80	120	2.17	15	
Chromium	1.76	0.0600	2.000	0	87.9	80	120	2.19	15	
Lead	3.99	0.0100	2.000	2.251	87.0	80	120	1.26	15	
Selenium	1.92	0.0600	2.000	0	96.0	80	120	1.15	15	
Silver	1.50	0.0200	2.000	0	75.0	80	120	2.16	15	S

Sample ID: **0703116-01A PDS**	Batch ID: **25262**	TestNo: **SW1311/6020**	Units: **mg/L**
SampType: **PDS**	Run ID: **ICP-MS3_070319A**	Analysis Date: **3/19/2007 2:46:00 PM**	Prep Date: **3/16/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	1.92	0.0600	2.000	0	95.9	75	125			
Barium	2.08	0.100	2.000	0.2561	91.0	75	125			
Cadmium	1.88	0.0100	2.000	0.01510	93.1	75	125			
Chromium	1.82	0.0600	2.000	0	91.0	75	125			
Lead	4.08	0.0100	2.000	2.251	91.3	75	125			
Selenium	1.95	0.0600	2.000	0	97.5	75	125			
Silver	1.63	0.0200	2.000	0	81.4	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_070319A

Sample ID: **ICV2-070319** Batch ID: **R30737** TestNo: **SW1311/6020** Units: **µg/L**
SampType: **ICV** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:01:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	93.8	6.00	100.0	0	93.8	90	110			
Barium	107	10.0	100.0	0	107	90	110			
Cadmium	105	1.00	100.0	0	105	90	110			
Chromium	97.6	6.00	100.0	0	97.6	90	110			
Lead	108	1.00	100.0	0	108	90	110			
Selenium	96.8	6.00	100.0	0	96.8	90	110			
Silver	104	2.00	100.0	0	104	90	110			

Sample ID: **CCV3-070319** Batch ID: **R30737** TestNo: **SW1311/6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 2:54:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	182	6.00	200.0	0	91.0	90	110			
Barium	188	10.0	200.0	0	93.8	90	110			
Cadmium	200	1.00	200.0	0	99.8	90	110			
Chromium	180	6.00	200.0	0	90.2	90	110			
Lead	196	1.00	200.0	0	98.2	90	110			
Selenium	181	6.00	200.0	0	90.6	90	110			
Silver	186	2.00	200.0	0	93.2	90	110			

Sample ID: **CCV4-070319** Batch ID: **R30737** TestNo: **SW1311/6020** Units: **µg/L**
SampType: **CCV** Run ID: **ICP-MS3_070319A** Analysis Date: **3/19/2007 3:44:00 PM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	191	6.00	200.0	0	95.5	90	110			
Barium	207	10.0	200.0	0	104	90	110			
Cadmium	205	1.00	200.0	0	103	90	110			
Chromium	208	6.00	200.0	0	104	90	110			
Lead	205	1.00	200.0	0	103	90	110			
Selenium	198	6.00	200.0	0	98.8	90	110			
Silver	204	2.00	200.0	0	102	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_070320A

Sample ID: **LCS-25273** Batch ID: **25273** TestNo: **SW1311/8270C** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS3_070320A** Analysis Date: **3/20/2007 9:44:00 AM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.0330	0.00400	0.04000	0	82.5	30	125			
2,4,5-Trichlorophenol	0.0378	0.00400	0.04000	0	94.5	25	175			
2,4,6-Trichlorophenol	0.0346	0.00400	0.04000	0	86.5	39	128			
2,4-Dinitrotoluene	0.0408	0.00400	0.04000	0	102	39	139			
2-Methylphenol	0.0286	0.00400	0.04000	0	71.5	25	125			
3&4-Methylphenol	0.0284	0.00400	0.04000	0	71.0	33	125			
Hexachlorobenzene	0.0316	0.00400	0.04000	0	79.0	46	133			
Hexachlorobutadiene	0.0306	0.00400	0.04000	0	76.5	25	125			
Hexachloroethane	0.0338	0.00400	0.04000	0	84.5	25	153			
Nitrobenzene	0.0370	0.00400	0.04000	0	92.5	46	133			
Pentachlorophenol	0.0276	0.00400	0.04000	0	69.0	28	136			
Pyridine	0.0240	0.0100	0.04000	0	60.0	20	100			
Surr: 2,4,6-Tribromophenol	0.0750		0.08000		93.8	75	144			
Surr: 2-Fluorobiphenyl	0.0648		0.08000		81.0	64	136			
Surr: 2-Fluorophenol	0.0586		0.08000		73.2	40	119			
Surr: 4-Terphenyl-d14	0.0614		0.08000		76.8	67	145			
Surr: Nitrobenzene-d5	0.0670		0.08000		83.8	53	130			
Surr: Phenol-d6	0.0568		0.08000		71.0	30	130			

Sample ID: **MB-25273** Batch ID: **25273** TestNo: **SW1311/8270C** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS3_070320A** Analysis Date: **3/20/2007 10:19:00 AM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.00400								
2,4,5-Trichlorophenol	ND	0.00400								
2,4,6-Trichlorophenol	ND	0.00400								
2,4-Dinitrotoluene	ND	0.00400								
2-Methylphenol	ND	0.00400								
3&4-Methylphenol	ND	0.00400								
Hexachlorobenzene	ND	0.00400								
Hexachlorobutadiene	ND	0.00400								
Hexachloroethane	ND	0.00400								
Nitrobenzene	ND	0.00400								
Pentachlorophenol	ND	0.00400								
Pyridine	ND	0.0100								
Surr: 2,4,6-Tribromophenol	0.0688		0.08000		86.0	75	144			
Surr: 2-Fluorobiphenyl	0.0574		0.08000		71.8	64	136			
Surr: 2-Fluorophenol	0.0554		0.08000		69.2	40	119			
Surr: 4-Terphenyl-d14	0.0510		0.08000		63.8	67	145			S
Surr: Nitrobenzene-d5	0.0614		0.08000		76.8	53	130			
Surr: Phenol-d6	0.0586		0.08000		73.2	30	130			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_070320A

Sample ID: **0703128-01D-MS** Batch ID: **25273** TestNo: **SW1311/8270C** Units: **mg/L**
SampType: **MS** Run ID: **GCMS3_070320A** Analysis Date: **3/20/2007 2:23:00 PM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.352	0.0400	0.4000	0	88.0	30	125			
2,4,5-Trichlorophenol	0.332	0.0400	0.4000	0	83.0	25	175			
2,4,6-Trichlorophenol	0.312	0.0400	0.4000	0	78.0	39	128			
2,4-Dinitrotoluene	0.388	0.0400	0.4000	0	97.0	39	139			
2-Methylphenol	0.370	0.0400	0.4000	0	92.5	25	125			
3&4-Methylphenol	0.390	0.0400	0.4000	0	97.5	33	125			
Hexachlorobenzene	0.356	0.0400	0.4000	0	89.0	46	133			
Hexachlorobutadiene	0.304	0.0400	0.4000	0	76.0	25	125			
Hexachloroethane	0.360	0.0400	0.4000	0	90.0	25	153			
Nitrobenzene	0.392	0.0400	0.4000	0	98.0	46	133			
Pentachlorophenol	0.206	0.0400	0.4000	0	51.5	28	136			
Pyridine	0.254	0.100	0.4000	0	63.5	20	100			
Surr: 2,4,6-Tribromophenol	0.678		0.8000		84.8	75	144			
Surr: 2-Fluorobiphenyl	0.646		0.8000		80.8	64	136			
Surr: 2-Fluorophenol	0.656		0.8000		82.0	40	119			
Surr: 4-Terphenyl-d14	0.648		0.8000		81.0	67	145			
Surr: Nitrobenzene-d5	0.748		0.8000		93.5	53	130			
Surr: Phenol-d6	0.690		0.8000		86.2	30	130			

Sample ID: **0703128-01D-MSD** Batch ID: **25273** TestNo: **SW1311/8270C** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS3_070320A** Analysis Date: **3/20/2007 2:58:00 PM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	0.352	0.0400	0.4000	0	88.0	30	125	0	20	
2,4,5-Trichlorophenol	0.340	0.0400	0.4000	0	85.0	25	175	2.38	20	
2,4,6-Trichlorophenol	0.318	0.0400	0.4000	0	79.5	39	128	1.90	20	
2,4-Dinitrotoluene	0.390	0.0400	0.4000	0	97.5	39	139	0.514	20	
2-Methylphenol	0.368	0.0400	0.4000	0	92.0	25	125	0.542	20	
3&4-Methylphenol	0.398	0.0400	0.4000	0	99.5	33	125	2.03	20	
Hexachlorobenzene	0.350	0.0400	0.4000	0	87.5	46	133	1.70	20	
Hexachlorobutadiene	0.306	0.0400	0.4000	0	76.5	25	125	0.656	20	
Hexachloroethane	0.364	0.0400	0.4000	0	91.0	25	153	1.10	20	
Nitrobenzene	0.390	0.0400	0.4000	0	97.5	46	133	0.512	20	
Pentachlorophenol	0.240	0.0400	0.4000	0	60.0	28	136	15.2	20	
Pyridine	0.262	0.100	0.4000	0	65.5	20	100	3.10	20	
Surr: 2,4,6-Tribromophenol	0.630		0.8000		78.8	75	144	0	0	
Surr: 2-Fluorobiphenyl	0.640		0.8000		80.0	64	136	0	0	
Surr: 2-Fluorophenol	0.664		0.8000		83.0	40	119	0	0	
Surr: 4-Terphenyl-d14	0.642		0.8000		80.2	67	145	0	0	
Surr: Nitrobenzene-d5	0.736		0.8000		92.0	53	130	0	0	
Surr: Phenol-d6	0.700		0.8000		87.5	30	130	0	0	

Qualifiers:
- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- N Parameter not NELAC certified
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- DF Dilution Factor
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS3_070320A

Sample ID: **ICV-070320** Batch ID: **R30761** TestNo: **SW1311/8270C** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS3_070320A** Analysis Date: **3/20/2007 9:06:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	3.84	0.00400	4.000	0	96.0	75	125			
2,4,5-Trichlorophenol	3.74	0.00400	4.000	0	93.5	75	125			
2,4,6-Trichlorophenol	3.61	0.00400	4.000	0	90.2	75	125			
2,4-Dinitrotoluene	4.20	0.00400	4.000	0	105	75	125			
2-Methylphenol	3.43	0.00400	4.000	0	85.8	75	125			
3&4-Methylphenol	3.34	0.00400	4.000	0	83.5	75	125			
Hexachlorobenzene	3.60	0.00400	4.000	0	90.0	75	125			
Hexachlorobutadiene	3.65	0.00400	4.000	0	91.2	75	125			
Hexachloroethane	3.85	0.00400	4.000	0	96.2	75	125			
Nitrobenzene	4.05	0.00400	4.000	0	101	75	125			
Pentachlorophenol	4.15	0.00400	4.000	0	104	75	125			
Pyridine	2.82	0.0100	4.000	0	70.5	65	125			
Surr: 2,4,6-Tribromophenol	3.93		4.000		98.2	80	120			
Surr: 2-Fluorobiphenyl	3.80		4.000		95.0	80	120			
Surr: 2-Fluorophenol	3.67		4.000		91.8	80	120			
Surr: 4-Terphenyl-d14	3.29		4.000		82.2	80	120			
Surr: Nitrobenzene-d5	3.89		4.000		97.2	80	120			
Surr: Phenol-d6	3.54		4.000		88.5	80	120			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_070319B

Sample ID: **LCS-25278**	Batch ID: **25278**	TestNo: **SW1311/8260B**	Units: **mg/L**
SampType: **LCS**	Run ID: **GCMS5_070319B**	Analysis Date: **3/19/2007 9:00:00 AM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0201	0.00100	0.02320	0	86.6	75	125			
1,2-Dichloroethane	0.0208	0.00100	0.02320	0	89.6	75	125			
1,4-Dichlorobenzene	0.0258	0.00100	0.02320	0	111	75	125			
2-Butanone	0.0186	0.0150	0.02320	0	80.2	50	150			
Benzene	0.0207	0.00100	0.02320	0	89.3	75	125			
Carbon tetrachloride	0.0214	0.00100	0.02320	0	92.2	75	125			
Chlorobenzene	0.0238	0.00100	0.02320	0	102	75	125			
Chloroform	0.0206	0.00100	0.02320	0	88.7	75	125			
Hexachlorobutadiene	0.0233	0.00300	0.02320	0	101	75	125			
Tetrachloroethene	0.0241	0.00100	0.02320	0	104	75	125			
Trichloroethene	0.0192	0.00100	0.02320	0	82.6	75	125			
Vinyl chloride	0.0216	0.00100	0.02320	0	93.3	75	125			
Surr: 1,2-Dichloroethane-d4	0.204		0.2000		102	62	139			
Surr: 4-Bromofluorobenzene	0.198		0.2000		99.2	75	125			
Surr: Dibromofluoromethane	0.198		0.2000		99.0	75	125			
Surr: Toluene-d8	0.213		0.2000		107	75	125			

Sample ID: **MB-25278**	Batch ID: **25278**	TestNo: **SW1311/8260B**	Units: **mg/L**
SampType: **MBLK**	Run ID: **GCMS5_070319B**	Analysis Date: **3/19/2007 9:54:00 AM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.00100								
1,2-Dichloroethane	ND	0.00100								
1,4-Dichlorobenzene	ND	0.00100								
2-Butanone	ND	0.0150								
Benzene	ND	0.00100								
Carbon tetrachloride	ND	0.00100								
Chlorobenzene	ND	0.00100								
Chloroform	ND	0.00100								
Hexachlorobutadiene	ND	0.00300								
Tetrachloroethene	ND	0.00100								
Trichloroethene	ND	0.00100								
Vinyl chloride	ND	0.00100								
Surr: 1,2-Dichloroethane-d4	0.201		0.2000		100	62	139			
Surr: 4-Bromofluorobenzene	0.211		0.2000		105	75	125			
Surr: Dibromofluoromethane	0.197		0.2000		98.4	75	125			
Surr: Toluene-d8	0.224		0.2000		112	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: *Sii Drilco Hobbs Remed*

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_070319B

Sample ID: **MB-25259 ZHE** Batch ID: **25278** TestNo: **SW1311/8260B** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_070319B** Analysis Date: **3/19/2007 10:46:00 AM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	ND	0.0100								
1,2-Dichloroethane	ND	0.0100								
1,4-Dichlorobenzene	ND	0.0100								
2-Butanone	ND	0.150								
Benzene	ND	0.0100								
Carbon tetrachloride	ND	0.0100								
Chlorobenzene	ND	0.0100								
Chloroform	ND	0.0100								
Hexachlorobutadiene	ND	0.0300								
Tetrachloroethene	ND	0.0100								
Trichloroethene	ND	0.0100								
Vinyl chloride	ND	0.0100								
Surr: 1,2-Dichloroethane-d4	1.89		2.000		94.6	62	139			
Surr: 4-Bromofluorobenzene	2.21		2.000		110	75	125			
Surr: Dibromofluoromethane	1.86		2.000		92.9	75	125			
Surr: Toluene-d8	2.24		2.000		112	75	125			

Sample ID: **0703118-02D MS** Batch ID: **25278** TestNo: **SW1311/8260B** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_070319B** Analysis Date: **3/19/2007 1:59:00 PM** Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.184	0.0100	0.2320	0	79.4	75	125			
1,2-Dichloroethane	0.196	0.0100	0.2320	0	84.3	75	125			
1,4-Dichlorobenzene	0.253	0.0100	0.2320	0	109	75	125			
2-Butanone	0.201	0.150	0.2320	0	86.8	50	150			
Benzene	0.190	0.0100	0.2320	0	81.9	75	125			
Carbon tetrachloride	0.181	0.0100	0.2320	0	78.1	75	125			
Chlorobenzene	0.229	0.0100	0.2320	0	98.8	75	125			
Chloroform	0.191	0.0100	0.2320	0	82.2	75	125			
Hexachlorobutadiene	0.219	0.0300	0.2320	0	94.5	75	125			
Tetrachloroethene	0.237	0.0100	0.2320	0	102	75	125			
Trichloroethene	0.173	0.0100	0.2320	0	74.4	75	125			S
Vinyl chloride	0.189	0.0100	0.2320	0	81.3	75	125			
Surr: 1,2-Dichloroethane-d4	2.02		2.000		101	62	139			
Surr: 4-Bromofluorobenzene	2.01		2.000		101	75	125			
Surr: Dibromofluoromethane	1.97		2.000		98.3	75	125			
Surr: Toluene-d8	2.21		2.000		110	75	125			

Qualifiers:

B	Analyte detected in the associated Method Blank	*DF*	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_070319B

Sample ID: **0703118-02D MSD**	Batch ID: **25278**	TestNo: **SW1311/8260B**	Units: **mg/L**
SampType: **MSD**	Run ID: **GCMS5_070319B**	Analysis Date: **3/19/2007 2:23:00 PM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.185	0.0100	0.2320	0	79.7	75	125	0.380	20	
1,2-Dichloroethane	0.194	0.0100	0.2320	0	83.5	75	125	0.873	20	
1,4-Dichlorobenzene	0.253	0.0100	0.2320	0	109	75	125	0.0396	20	
2-Butanone	0.195	0.150	0.2320	0	84.2	50	150	3.02	20	
Benzene	0.189	0.0100	0.2320	0	81.5	75	125	0.527	20	
Carbon tetrachloride	0.186	0.0100	0.2320	0	80.1	75	125	2.62	20	
Chlorobenzene	0.231	0.0100	0.2320	0	99.4	75	125	0.565	20	
Chloroform	0.191	0.0100	0.2320	0	82.5	75	125	0.262	20	
Hexachlorobutadiene	0.230	0.0300	0.2320	0	99.0	75	125	4.63	20	
Tetrachloroethene	0.237	0.0100	0.2320	0	102	75	125	0.127	20	
Trichloroethene	0.174	0.0100	0.2320	0	75.1	75	125	0.981	20	
Vinyl chloride	0.193	0.0100	0.2320	0	83.3	75	125	2.36	20	
Surr: 1,2-Dichloroethane-d4	2.01		2.000		101	62	139	0	0	
Surr: 4-Bromofluorobenzene	2.03		2.000		102	75	125	0	0	
Surr: Dibromofluoromethane	1.97		2.000		98.4	75	125	0	0	
Surr: Toluene-d8	2.19		2.000		109	75	125	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_070319B

Sample ID: **ICV-070319** Batch ID: **R30754** TestNo: **SW1311/8260B** Units: **mg/L**
SampType: **ICV** Run ID: **GCMS5_070319B** Analysis Date: **3/19/2007 7:57:00 AM** Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
1,1-Dichloroethene	0.0377	0.00100	0.04640	0	81.2	80	120			
1,2-Dichloroethane	0.0405	0.00100	0.04640	0	87.3	70	130			
1,4-Dichlorobenzene	0.0490	0.00100	0.04640	0	106	70	130			
2-Butanone	0.0437	0.0150	0.04640	0	94.1	70	130			
Benzene	0.0405	0.00100	0.04640	0	87.4	70	130			
Carbon tetrachloride	0.0404	0.00100	0.04640	0	87.0	70	130			
Chlorobenzene	0.0452	0.00100	0.04640	0	97.4	70	130			
Chloroform	0.0399	0.00100	0.04640	0	85.9	80	120			
Hexachlorobutadiene	0.0430	0.00300	0.04640	0	92.7	70	130			
Tetrachloroethene	0.0465	0.00100	0.04640	0	100	70	130			
Trichloroethene	0.0366	0.00100	0.04640	0	78.9	70	130			
Vinyl chloride	0.0384	0.00100	0.04640	0	82.8	80	120			
Surr: 1,2-Dichloroethane-d4	0.212		0.2000		106	62	139			
Surr: 4-Bromofluorobenzene	0.200		0.2000		100	75	125			
Surr: Dibromofluoromethane	0.199		0.2000		99.4	75	125			
Surr: Toluene-d8	0.211		0.2000		105	75	125			

Qualifiers:

- B Analyte detected in the associated Method Blank
- J Analyte detected between MDL and RL
- N Parameter not NELAC certified
- R RPD outside accepted control limits
- S Spike Recovery outside control limits
- DF Dilution Factor
- MDL Method Detection Limit
- ND Not Detected at the Method Detection Limit
- RL Reporting Limit

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: IGN_070320A

Sample ID: **ICV-070320**	Batch ID: **IGN_S-03/20/07**	TestNo: **SW1010**	Units: **°C**
SampType: **ICV**	Run ID: **IGN_070320A**	Analysis Date: **3/20/2007 10:15:00 AM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	64	0	66.00	0	97.0	90	110			

Sample ID: **MBLK-070320**	Batch ID: **IGN_S-03/20/07**	TestNo: **SW1010**	Units: **°C**
SampType: **MBLK**	Run ID: **IGN_070320A**	Analysis Date: **3/20/2007 10:15:00 AM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	> 100	0								

Sample ID: **CCV-070320**	Batch ID: **IGN_S-03/20/07**	TestNo: **SW1010**	Units: **°C**
SampType: **CCV**	Run ID: **IGN_070320A**	Analysis Date: **3/20/2007 10:15:00 AM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Ignitability	65	0	66.00	0	98.5	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: PH_070320A

Sample ID: **ICV**	Batch ID: **PH_S-03/20/07**	TestNo: **SW9045C**	Units: **pH Units**
SampType: **ICV**	Run ID: **PH_070320A**	Analysis Date: **3/20/2007 1:45:00 PM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	10.0	0	10.00	0	100	99	101			

Sample ID: **0703121-01C DUP**	Batch ID: **PH_S-03/20/07**	TestNo: **SW9045C**	Units: **pH Units**
SampType: **DUP**	Run ID: **PH_070320A**	Analysis Date: **3/20/2007 1:45:00 PM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.95	0	0	8.057				1.34	15	

Sample ID: **CCV-070320**	Batch ID: **PH_S-03/20/07**	TestNo: **SW9045C**	Units: **pH Units**
SampType: **CCV**	Run ID: **PH_070320A**	Analysis Date: **3/20/2007 1:45:00 PM**	Prep Date: **3/20/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	0	7.000	0	100	97.1	102.9			

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_070319B

Sample ID: **MB-25284**	Batch ID: **25284**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **UV/VIS_2_070319B**	Analysis Date: **3/19/2007 4:55:00 PM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	ND	0.100								N

Sample ID: **LCS-25284 CN**	Batch ID: **25284**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **UV/VIS_2_070319B**	Analysis Date: **3/19/2007 4:55:00 PM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	1.13	0.100	40.00	0	2.83	1	10			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_070319B

Sample ID: **ICV-070319**	Batch ID: **R30743**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **UV/VIS_2_070319B**	Analysis Date: **3/19/2007 2:40:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.101	0.0500	0.1000	0	101	85	115			N

Sample ID: **CCV1-070319**	Batch ID: **R30743**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **UV/VIS_2_070319B**	Analysis Date: **3/19/2007 5:01:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Cyanide	0.190	0.0500	0.2000	0	94.8	85	115			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: WC_070319A

Sample ID: **MB-25284**	Batch ID: **25284**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **WC_070319A**	Analysis Date: **3/19/2007 3:00:00 PM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	ND	20.0								N

Sample ID: **LCS-25284 S**	Batch ID: **25284**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **WC_070319A**	Analysis Date: **3/19/2007 3:00:00 PM**	Prep Date: **3/19/2007**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	130	20.0	414.0	0	31.4	25	90			N

Qualifiers:

B	Analyte detected in the associated Method Blank	DF	Dilution Factor
J	Analyte detected between MDL and RL	MDL	Method Detection Limit
N	Parameter not NELAC certified	ND	Not Detected at the Method Detection Limit
R	RPD outside accepted control limits	RL	Reporting Limit
S	Spike Recovery outside control limits		

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

ANALYTICAL QC SUMMARY REPORT

RunID: WC_070319A

Sample ID: **ICV-070319**	Batch ID: **R30742**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **ICV**	Run ID: **WC_070319A**	Analysis Date: **3/19/2007 2:30:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	208	20.0	207.0	0	100	80	120			N

Sample ID: **CCV1-070319**	Batch ID: **R30742**	TestNo: **Reactivity**	Units: **mg/Kg**
SampType: **CCV**	Run ID: **WC_070319A**	Analysis Date: **3/19/2007 4:45:00 PM**	Prep Date:

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Reactive Sulfide	364	20.0	414.0	0	87.9	80	120			N

Qualifiers:

B	Analyte detected in the associated Method Blank
J	Analyte detected between MDL and RL
N	Parameter not NELAC certified
R	RPD outside accepted control limits
S	Spike Recovery outside control limits
DF	Dilution Factor
MDL	Method Detection Limit
ND	Not Detected at the Method Detection Limit
RL	Reporting Limit

CLIENT: SMITH INTERNATIONAL
Work Order: 0703121
Project: Sii Drilco Hobbs Remed

MQL SUMMARY REPORT

TestNo: SW1010	MDL	MQL
Analyte	°C	°C
Ignitability	0	0

TestNo: Reactivity	MDL	MQL
Analyte	mg/Kg	mg/Kg
Reactive Cyanide	0.0400	0.100
Reactive Sulfide	20.0	20.0

TestNo: SW1311/7470A	MDL	MQL
Analyte	mg/L	mg/L
Mercury	0.000800	0.00200
Mercury	0.0000800	0.000200

TestNo: SW1311/6020	MDL	MQL
Analyte	mg/L	mg/L
Arsenic	0.0200	0.0600
Arsenic	0.00200	0.00600
Barium	0.0300	0.100
Barium	0.00300	0.0100
Cadmium	0.00300	0.0100
Cadmium	0.000300	0.00100
Chromium	0.0200	0.0600
Chromium	0.00200	0.00600
Lead	0.00300	0.0100
Lead	0.000300	0.00100
Selenium	0.0200	0.0600
Selenium	0.00200	0.00600
Silver	0.0100	0.0200
Silver	0.00100	0.00200

TestNo: SW1311/8270C	MDL	MQL
Analyte	mg/L	mg/L
1,4-Dichlorobenzene	0.00100	0.00400
2,4,5-Trichlorophenol	0.00100	0.00400
2,4,6-Trichlorophenol	0.00100	0.00400
2,4-Dinitrotoluene	0.00100	0.00400
2-Methylphenol	0.00100	0.00400
3&4-Methylphenol	0.00100	0.00400
Hexachlorobenzene	0.00100	0.00400
Hexachlorobutadiene	0.00100	0.00400
Hexachloroethane	0.00100	0.00400
Nitrobenzene	0.00200	0.00400
Pentachlorophenol	0.00200	0.00400
Pyridine	0.00400	0.0100

TestNo: SW1311/8260B	MDL	MQL
Analyte	mg/L	mg/L
1,1-Dichloroethene	0.00200	0.0100
1,1-Dichloroethene	0.000200	0.00100
1,2-Dichloroethane	0.000300	0.00100
1,2-Dichloroethane	0.00300	0.0100
1,4-Dichlorobenzene	0.000300	0.00100
1,4-Dichlorobenzene	0.00300	0.0100
2-Butanone	0.00500	0.0150
2-Butanone	0.0500	0.150
Benzene	0.000200	0.00100
Benzene	0.00200	0.0100
Carbon tetrachloride	0.00200	0.0100
Carbon tetrachloride	0.000200	0.00100
Chlorobenzene	0.00200	0.0100
Chlorobenzene	0.000200	0.00100
Chloroform	0.000300	0.00100
Chloroform	0.00300	0.0100
Hexachlorobutadiene	0.00100	0.00300
Hexachlorobutadiene	0.0100	0.0300
Tetrachloroethene	0.000300	0.00100
Tetrachloroethene	0.00300	0.0100
Trichloroethene	0.000300	0.00100
Trichloroethene	0.00300	0.0100
Vinyl chloride	0.00100	0.0100
Vinyl chloride	0.000100	0.00100

Qualifiers: MQL -Method Quantitation Limit as defined by TRRP
MDL -Method Detection Limit as defined by TRRP

APPENDIX J

Non-hazardous Waste Manifests

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD 986677728

Manifest Document No. 00001

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International Inc
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services Dalko 1120 W. Bender Rd. NMED ID: 1682
Hobbs, NM 88240

4. Generator's Phone (281) 233-5401

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/App.

A. State Transporter's ID: N/A

B. Transporter 1 Phone: 505-390-9575

7. Transporter 2 Company Name: —

8. US EPA ID Number: —

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
Sundance Services Inc.
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number: NM0000367359

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Waste. TPH contaminated soil.	1	DT	20	Y3
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Contains small amounts of caliche rock.
Class II
7 yd3 SP3-1/13 yd3 SP1-1

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Tyra Blackshear 713-305-5722
Emergency contact; Lee Davis 281-233-5401
281-782-0609

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ~~Lee Davis~~ Tyra Blackshear
Signature:
Date: Month 05 Day 17 Year 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Natividad Garcia
Signature:
Date: Month 05 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space
Sundance

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Robin Acosta
Signature:
Date: Month 5 Day 17 Year 07

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD 986677128

Manifest Document No. 00002

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services-Driko
1120 W. Bender Rd.
Hobbs, NM 88240

4. Generator's Phone (281) 233-5401

NMED ID:- 1682

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/App

A. State Transporter's ID: —

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name: —

8. US EPA ID Number: —

C. State Transporter's ID: —

D. Transporter 2 Phone: —

9. Designated Facility Name and Site Address
Sundance Services, Inc
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number: NM0000367359

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-Hazardous Waste, TPH contaminated soil.	1	DT	20	Y3
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II
Contains small amounts of caliche rock
SP1-1 SP1-2 SP1-3

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Tyra Blackshear 713-305-5782
Emergency Contact: Lee Davis 281-233-5401
281-782-0609

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Lee Davis Tyra Blackshear
Signature:
Date: Month 05 Day 17 Year 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Javier Rodriguez
Signature:
Date: Month 5 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Robin Acosta
Signature:
Date: Month 5 Day 17 Year 07

NON-HAZARDOUS WASTE

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: NMD986677128

Manifest Document No.: 00003

2. Page 1 of 1

3. Generator's Name and Mailing Address:
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services-Driko
1120 W. Bender Rd.
Hobbs, NM 88240

4. Generator's Phone: (281) 233-5401

NMED Id:- 1682

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/App.

A. State Transporter's ID:

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address:
Sundance Services, Inc.
42 Sundance Hwy.
Eunice, NM 88231

10. US EPA ID Number: NM0000367369

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous waste. TPH contaminated soil.	1	DT	20	Y3
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above:
Class II waste
Contains small amounts of caliche rock.
Stockpile 1-SP1-2/SP1-3

H. Handling Codes for Wastes Listed Above:

15. Special Handling Instructions and Additional Information:
None.
Emergency contact: Lee Davis 281-233-5401
281-782-0609
Tyra Blackshear 713-305-5722

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name	Signature	Date (Month / Day / Year)
~~Mr Lee Davis~~ Tyra Blackshear		05 / 17 / 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)
Natividad García	Natividad García	5 / 17 / 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month / Day / Year)

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month / Day / Year)
Robin Acosta		5 / 17 / 07

GENERATOR — TRANSPORTER — FACILITY — NON-HAZARDOUS

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD986677128

Manifest Document No. 000 04

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services-Driko
1120 W. Bender Rd.
Hobbs, NM 88240

4. Generator's Phone (281) 233-5401

NMED Id:- 1682

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/App

A. State Transporter's ID:

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
Sundance Services, Inc
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number: NM0000367369

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous. TPit Contaminated soil.	1	DT	20	T3
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II waste
Contains small amounts of caliche rock.
Stock pile 2 SP2-1

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Tyra Blackshear 713-305-5722
Emergency Contact:- Lee Davis 281-233-5401
281-782-0609

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ~~Lee Davis~~ Tyra Blackshear
Signature:
Date: Month 05 Day 17 Year 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Javier Rodriguez
Signature:
Date: Month 05 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Robin Acosta
Signature:
Date: Month 5 Day 17 Year 07

GENERATOR — TRANSPORTER — FACILITY

NON-HAZARDOUS

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD986677128

Manifest Document No. 00005

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services-Drilco
1120W. Bender Rd.
Hobbs, NM 88240

4. Generator's Phone (281) 233-5401

NMED Id:- 1682

5. Transporter 1 Company Name
Jim Wilson Const.

6. US EPA ID Number
N/App

A. State Transporter's ID —

B. Transporter 1 Phone 505-392-9575

7. Transporter 2 Company Name —

8. US EPA ID Number —

C. State Transporter's ID

D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Sundance Services, Inc.
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number
NM0000367369

E. State Facility's ID
NM-01-0003

F. Facility's Phone
505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous TPH contaminated Soil.	1	DT	20	Y3
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II waste.
Contains small amounts of caliche rock.
SP2-1 Stockpile 2

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Tyra Blackshear 713-305-5722
Emergency contact:- Lee Davis 281-233-5401
281-782-0609

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ~~Lee Davis~~ Tyra Blackshear
Signature: TRBl
Date: Month 05 Day 17 Year 07

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Natividad Garcia
Signature: Natividad Garcia
Date: Month 5 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

19. Discrepancy Indication Space —

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Ramon Acosta
Signature: Ramon Acosta
Date: Month 5 Day 17 Year 07

GENERATOR | TRANSPORTER | FACILITY

NON-HAZARDOUS

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD 986677128

Manifest Document No. 00006

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility:
Smith Services - Drilco
1120 W. Bender Rd.
Hobbs, NM 88240

4. Generator's Phone (281) 233-5401

NMED Id:- 1682

5. Transporter 1 Company Name: Jim Wilson Const

6. US EPA ID Number: N/App.

A. State Transporter's ID: —

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name: —

8. US EPA ID Number: —

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
Sundance Services, Inc.
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number: NM 000 367369

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous. TPH contaminated soil.	1	DT	20	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II waste.
Contains small amounts of caliche rock.
SP2-1 Stockpile 2

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Tyra Blackshear 713-305-5722
Emergency Contact:- Lee Davis 281-233-5401
281-782-0609

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ~~Lee Davis~~ Tyra Blackshear
Signature: [signature]
Date: Month 05 Day 17 Year 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Javier Rodriguez
Signature: [signature]
Date: Month 05 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.
Printed/Typed Name: Robin Acosta
Signature: [signature]
Date: Month 5 Day 17 Year 07

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD 986677128

Manifest Document No. 00007

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility: Smith Services-Hobbs
1120 W. Bender Rd.
Hobbs, N.M. 88240

4. Generator's Phone (281) 233-5401

NMED ID: -1682

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/A

A. State Transporter's ID: —

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name:

8. US EPA ID Number:

C. State Transporter's ID:

D. Transporter 2 Phone:

9. Designated Facility Name and Site Address
Sundance Services Inc.
42 Sundance Ln.
Eunice, N.M. 88231

10. US EPA ID Number: NM0000367369

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non-hazardous. TPH contaminated soil.	1	DT	18	Y
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II waste. Contains small amount of caliche rock.
Stock Pile 2 - SP2-1

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Emergency Contacts
Tyra Blackshear 713-305-5722
Lee Davis 281-233-5401
281-782-0609

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

GENERATOR

Printed/Typed Name	Signature	Date (Month Day Year)
Tyra R Blackshear		05 17 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
Natividad Garcia	Natividad Garcia	5 7 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
D Dunlap	D Dunlap	5 17 07

NON-HAZARDOUS WASTE

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. NMD986677128

Manifest Document No. 00008

2. Page 1 of 1

3. Generator's Name and Mailing Address
Smith International, Inc.
P.O. Box 60068
Houston, TX 77205-0068

Facility:
Smith Services - Drilco
1120 W. Bender Rd.
Hobbs, NM 88240 NMED ID:- 1682

4. Generator's Phone (281) 233-5401

5. Transporter 1 Company Name: Jim Wilson Const.

6. US EPA ID Number: N/App

A. State Transporter's ID: —

B. Transporter 1 Phone: 505-392-9575

7. Transporter 2 Company Name: —

8. US EPA ID Number: —

C. State Transporter's ID: —

D. Transporter 2 Phone: —

9. Designated Facility Name and Site Address
Sundance Services, Inc
42 Sundance Ln.
Eunice, NM 88231

10. US EPA ID Number: NMD000367369

E. State Facility's ID: NM-01-0003

F. Facility's Phone: 505-394-2511

11. WASTE DESCRIPTION	12. Containers No.	12. Containers Type	13. Total Quantity	14. Unit Wt./Vol.
a. None Hazardous. TPH contaminated soil.	1	DT	5	YD
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
Class II waste.
Contains small amounts of caliche rock. SP2-1

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information
None.
Emergency Contact:- Lee Davis 281-233-5401
281-782-0609

GENERATOR

16. **GENERATOR'S CERTIFICATION:** I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Tyra Blackshear for Lee Davis
Signature: [signature]
Date: Month 05 Day 17 Year 07

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name: Javier Rodriguez
Signature: [signature]
Date: Month 05 Day 17 Year 07

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.

Printed/Typed Name: Robin Acosta
Signature: [signature]
Date: Month 5 Day 17 Year 07

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK