

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Burlington Resources, a wholly owned subsidiary of ConocoPhillips Company	Contact	Gwen R. Frost
Address	3401 E. 30th St., Farmington, NM 87402	Telephone No.	505-326-9549
Facility Name	San Juan 30-6 #92M	Facility Type	Gas Well
Surface Owner	Federal	Mineral Owner	Federal
		Lease No.	NM-02151-B
		API #	30-039-30686

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	33	T30N	R07W	2313'	North	1500'	East	Rio Arriba

Latitude 36.76993° N Longitude 107.57196° W

NATURE OF RELEASE

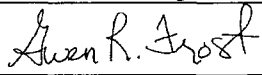
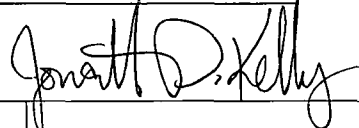
Type of Release – 15% Hydrochloric Acid	Volume of Release – 24 BBL	Volume Recovered – 0 BBL
Source of Release: Acid Transporter valve leak	Date and Hour of Occurrence 11/17/09	Date and Hour of Discovery 11/17/09 – 7:30 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD - Brandon Powell via phone BLM – Kevin Schneider via phone	RCVD FEB 12 '10 OIL CONS. DIV.
By Whom? Gwen R. Frost	Date and Hour – 11/17/09 – 4:00 p.m.	DIST. 3
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* **At the start of frac operations on location, fluid was noted in the area of the frac pump & blender. A Schlumberger crew discovered it was 15% hydrochloric acid from the acid transfer pump valve that had leaked. Upon discovery the job was shut down & Envirotech was mobbed to location for spill clean up. The spill volume was approximately 24 BBL of 15% HCl. The spill was contained on location.**

Describe Area Affected and Cleanup Action Taken.* **All of the spilled fluids remained on location. All impacted soil was recovered & removed for proper disposal by Envirotech.**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Gwen R. Frost	Approved by District Supervisor: 	
Title: Environmental Engineer	Approval Date: 11/19/2012	Expiration Date:
E-mail Address: gwendolynne.frost@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 2/11/10	Phone: 505-326-9549	

* Attach Additional Sheets If Necessary

NSK 1232453598

SPILL CLEANUP REPORT

LOCATED AT:
BURLINGTON RESOURCES
SAN JUAN 30-6 #92N WELL SITE
SECTION 33, TOWNSHIP 30N, RANGE 7W
RIO ARriba COUNTY, NEW MEXICO

PREPARED FOR:
SCHLUMBERGER WELL SERVICE
MR. WAYNE ALLEN
3106 BLOOMFIELD HIGHWAY
FARMINGTON, NEW MEXICO 87401



PROJECT No. 97033-0019
DECEMBER 2009



January 18, 2010

Project No. 97033-0019

Mr. Wayne Allen
Schlumberger Well Service
3106 Bloomfield Highway
Farmington, NM 87401

Cell (505) 325-5096
Fax (505) 327-0317


**RE: SPILL CLEANUP REPORT FOR BURLINGTON RESOURCES SAN JUAN 30-6 #92N
WELL SITE, RIO ARRIBA COUNTY, NEW MEXICO**

Dear Mr. Allen,

Enclosed please find the *Spill Cleanup Report* detailing cleanup activities at the Burlington Resources San Juan 30-6 #92N well site located in Section 33, Township 30N, Range 7W, Rio Arriba County, New Mexico.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,
ENVIROTECH, INC.


Sherry Auckland
Staff Scientist
sauckland@envirotech-inc.com

Enclosures: Spill Cleanup Report

Cc: Client File No. 97033

SCHLUMBERGER WELL SERVICE
SPILL CLEANUP REPORT
SAN JUAN 30-6 #92N WELL SITE
SECTION 33, TOWNSHIP 30N, RANGE 7W
RIO ARriba COUNTY, NEW MEXICO

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 Figure 2, Site Map

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 Appendix C, MSDS
 Appendix D, Special Waste Shipment Records

INTRODUCTION

Envirotech, Inc. of Farmington, New Mexico, was contracted by Schlumberger to provide environmental response and cleanup services for a release of hydrochloric acid at the San Juan 30-6 #92N well site located in Section 33, Township 30N, Range 7W, Rio Arriba County, New Mexico; see ***Figure 1, Vicinity Map***. Approximately 1,000 gallons of 15% hydrochloric acid was released onto the well pad during fracturing activities; see ***Figure 2, Site Map*** and ***Appendix A, Site Photography***. Cleanup activities included the removal of contaminated soil, field screening, sampling, laboratory analysis, documentation, and reporting.

ACTIVITIES PERFORMED

Envirotech was contacted on November 17, 2009, with an emergency request to respond to a spill that occurred at the above-referenced location. On November 17, 2009, an Envirotech Scientist arrived on-site to begin cleanup activities. Prior to Envirotech's arrival, Schlumberger had applied approximately 250 pounds of soda ash to the soil collected from the area of release, to neutralize the hydrochloric acid; see ***Appendix C, MSDS***. Upon arrival, an Envirotech scientist collected a composite sample from the soil staged on-site, after application of the soda ash. The sample was screened in the field for pH and returned results of less than one (1). Schlumberger then applied approximately 250 additional pounds of soda ash. A second composite sample was collected from the sludge pile and analyzed in the field for pH and returned results of 7.7. This sample was transported under chain of custody to Envirotech's laboratory to be analyzed for total petroleum hydrocarbons (TPH) via USEPA Method 8015 and for reactivity, corrosivity, and ignitability (RCI). The sample returned results of 26.9 ppm TPH and negative for RCI.

Three (3) additional composite samples were then collected. Two (2) composite samples were collected from the area of release, and one (1) background sample was collected just west of the well-pad; see ***Figure 2, Site Map***. The samples were screened in the field for pH and returned results ranging from 8.64 to 9.97. The three samples were transported under chain of custody to Envirotech's laboratory to be analyzed for pH. The laboratory samples returned results ranging from 6.57 to 7.95.

Schlumberger requested approval to dispose of the waste at the San Juan County Regional (SJCRL) Landfill from the New Mexico Oil Conservation Division (NMOCD) on December 3, 2009. Upon receipt of approval from the NMOCD, the SJCRL request additional analysis for benzene and BTEX. On December 4, 2009, Envirotech, Inc. returned to the site to collect a composite sample from the sludge pile. The sample was collected into a four (4)-ounce glass jar, capped headspace free, and transported on ice under chain of custody to Envirotech's laboratory to be analyzed for benzene and BTEX via USEPA Method 8021. The sample returned results of 1.12 ppm benzene and 108.0 ppm BTEX; see ***Appendix B, Analytical Results***. Approximately 24 cubic yards of contaminated soil was then transported to SJCRL for disposal; see ***Appendix D, Special Waste Shipment Records***.

SUMMARY AND CONCLUSIONS

Approximately 24 cubic yards of contaminated soil was transported to SJCRL for disposal; see *Appendix D, Special Waste Shipment Records*. Envirotech, Inc. recommends no further action regarding this incident.

STATEMENT OF LIMITATIONS

Envirotech, Inc. has completed the removal of soil impacted by a Schlumberger release of 15% hydrochloric acid located at Burlington Resources San Juan 30-6 #92N well site located in Section 33, Township 30N, Range 7W, Rio Arriba County, New Mexico. The work and services provided by Envirotech were in accordance with NMOCD regulatory standards. All observations and conclusions provided here are based on the information and current site conditions found at the site of the incident.

The undersigned has conducted this service at the above referenced site. This work has been conducted and reported in accordance with generally accepted professional practices in geology, engineering, environmental chemistry, and hydrogeology.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

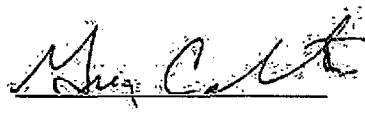
Reviewed By:

ENVIROTECH, INC.



Sherry Auckland
Staff Scientist

sauckland@envirotech-inc.com

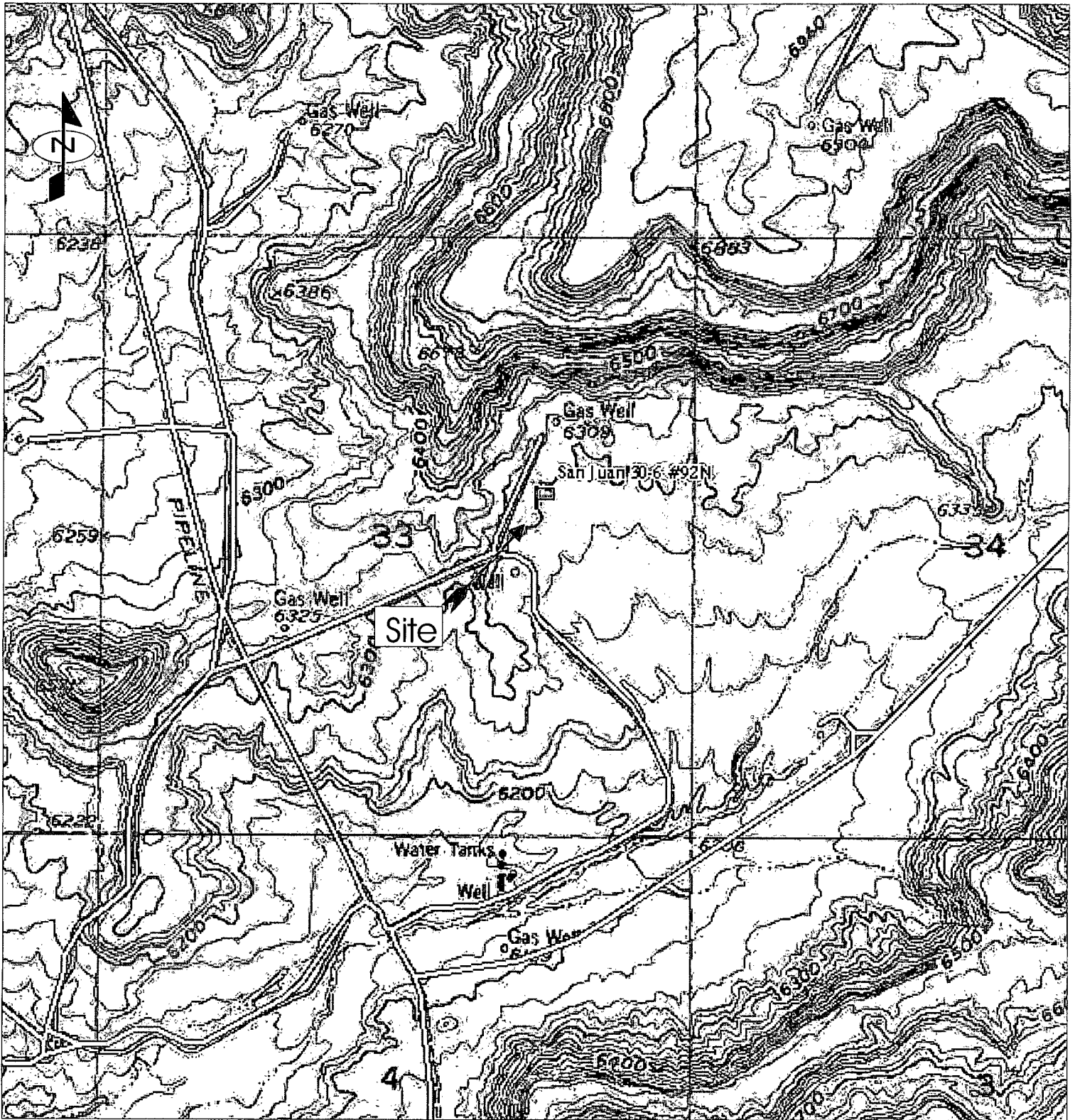


Greg Crabtree, EIT
Project Engineer/Manager
gcrabtree@envirotech-inc.com

FIGURES

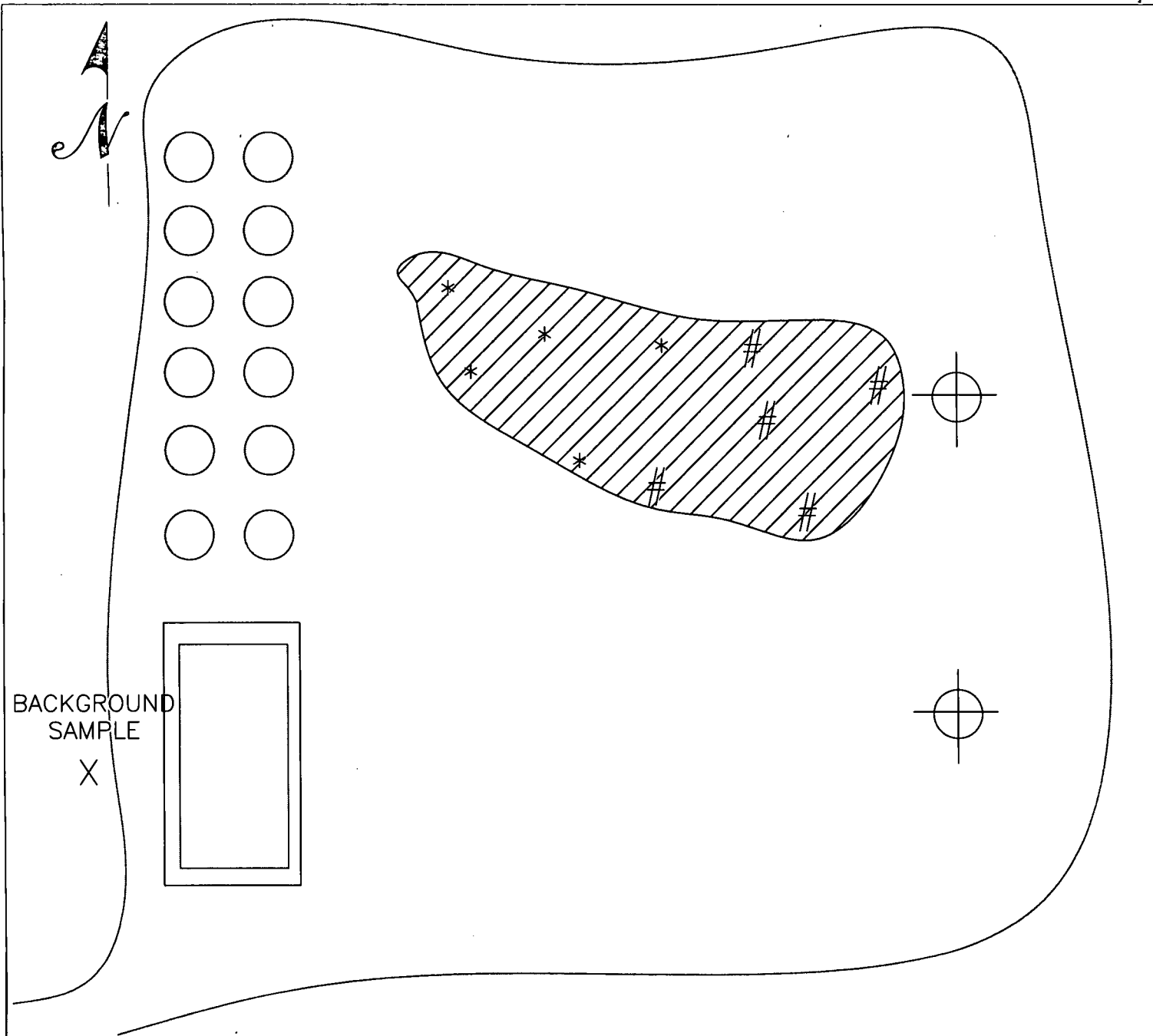
Figure 1, Vicinity Map

Figure 2, Site Map



Source: Blanco, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map
 Scale: 1:24,000 1" = 2000'

<p>Schlumberger San Juan 30-6 #92N Well Site Section 33, Township 30N, Range 7W Rio Arriba County, New Mexico</p>	<p>ENVIROTECH INC. ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 FARMINGTON, NEW MEXICO 87401 PHONE (505) 632-0615</p>	<p>Vicinity Map</p>	
<p>PROJECT No 97033-0019 Date Drawn: 12/22/09</p>		<p>DRAWN BY: Sherry Auckland</p>	<p>PROJECT MANAGER: Greg Crabtree</p>



LEGEND

○ FRACTURING TANKS STAGED ON-SITE

□ BERM

□ COVERED STOCKPILE ON POLY-LINER

▨ CONTAMINATED AREA

⊕ WELL HEAD

* / # SAMPLE LOCATIONS

SITE MAP SCHLUMBERGER

SAN JUAN 30-6 #92N & 92M WELL SITES
SEC 33, TWP 30N, RNG 7W
RIO ARRIBA COUNTY, NEW MEXICO

SCALE: NTS

FIGURE NO. 2

REV

PROJECT N097033-0019

REVISIONS

NO.	DATE	BY	DESCRIPTION
MAP DRWN	SLA	12/28/09	BASE DRWN

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

APPENDIX A

Site Photography

**SPILL CLEANUP REPORT
BURLINGTON RESOURCES
SAN JUAN 30-6 #92N WELL SITE
SECTION 33, TOWNSHIP 30N, RANGE 7W
RIO ARriba COUNTY, NEW MEXICO
PROJECT NO. 97033-0019**

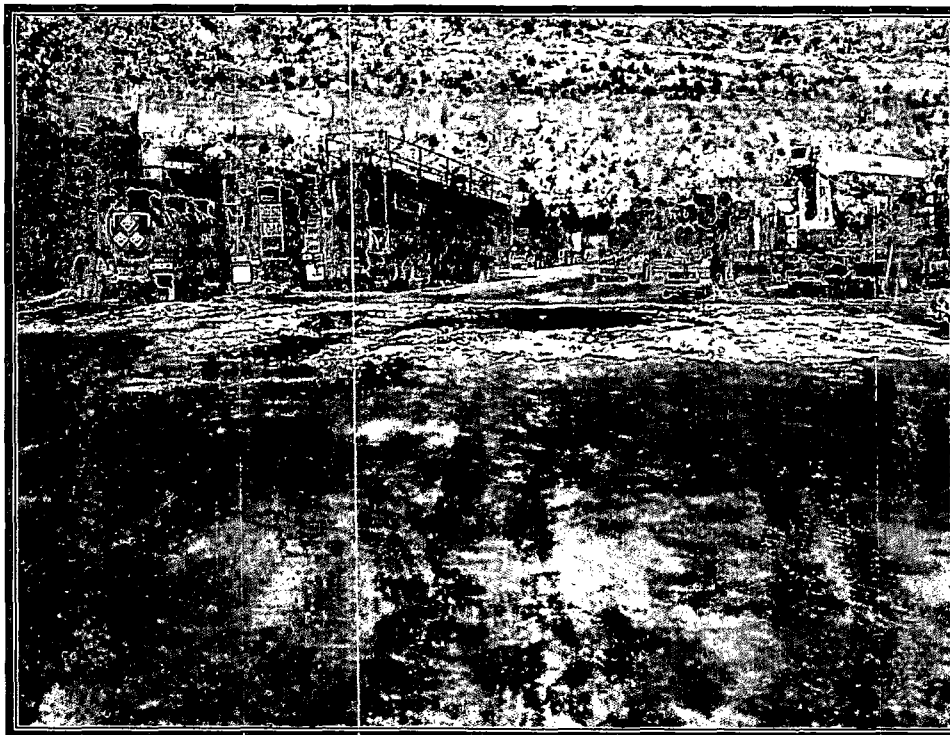


Photo 1: View of Spill Area upon Envirotech's Arrival

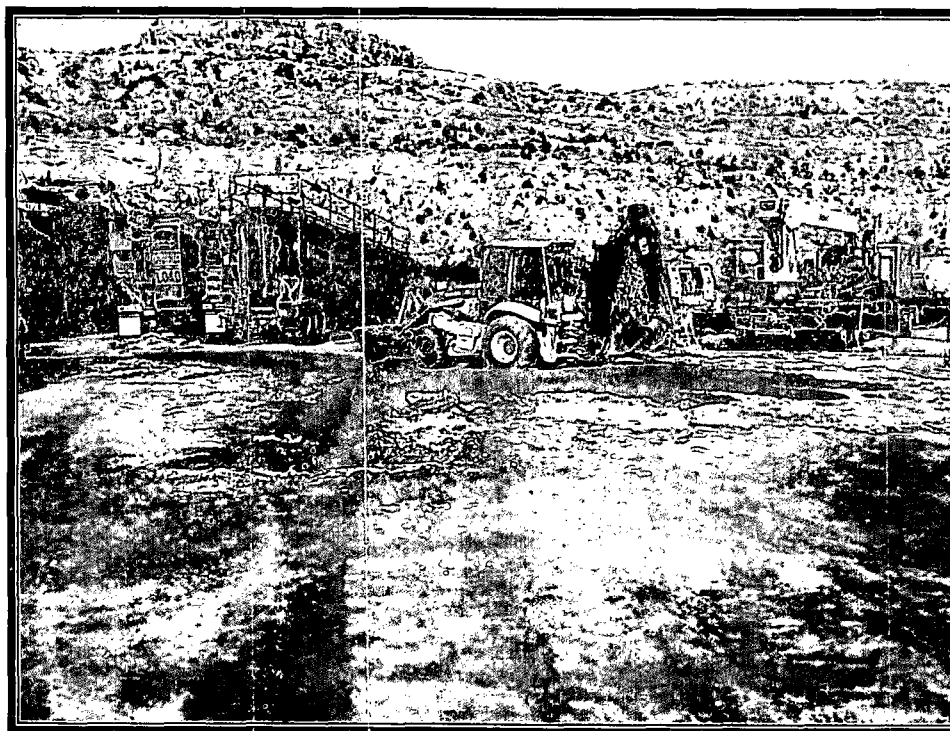


Photo 2: Spill Area Excavation (View 1)

SPILL CLEANUP REPORT
BURLINGTON RESOURCES
SAN JUAN 30-6 #92N WELL SITE
SECTION 33, TOWNSHIP 30N, RANGE 7W
RIO ARRIBA COUNTY, NEW MEXICO
PROJECT NO. 97033-0019

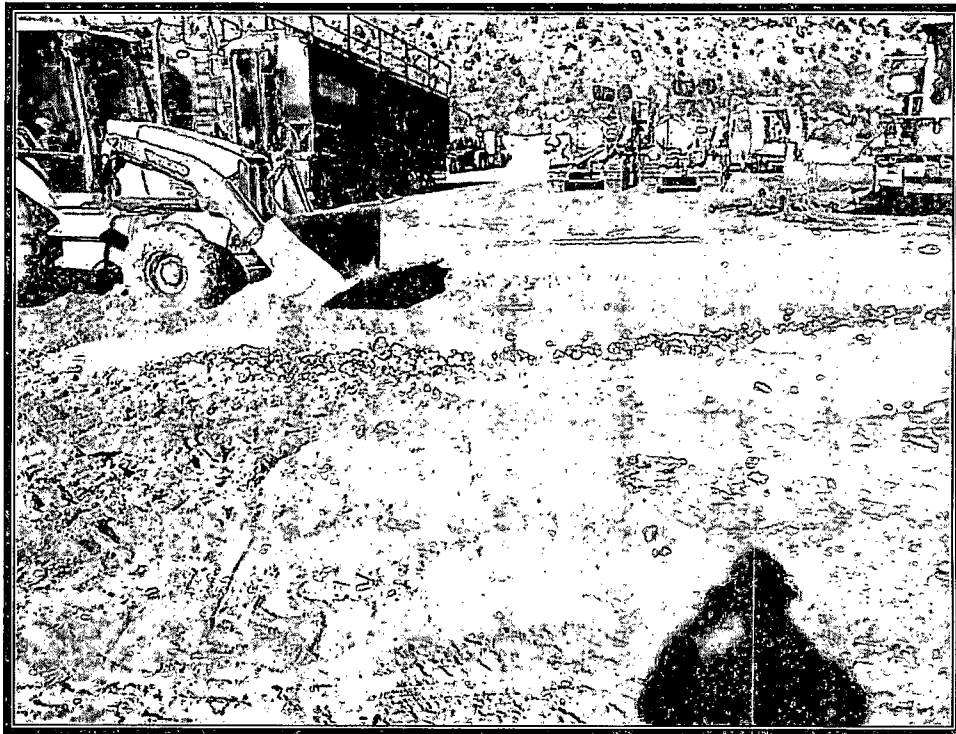


Photo 3: Spill Area Excavation (View 2)

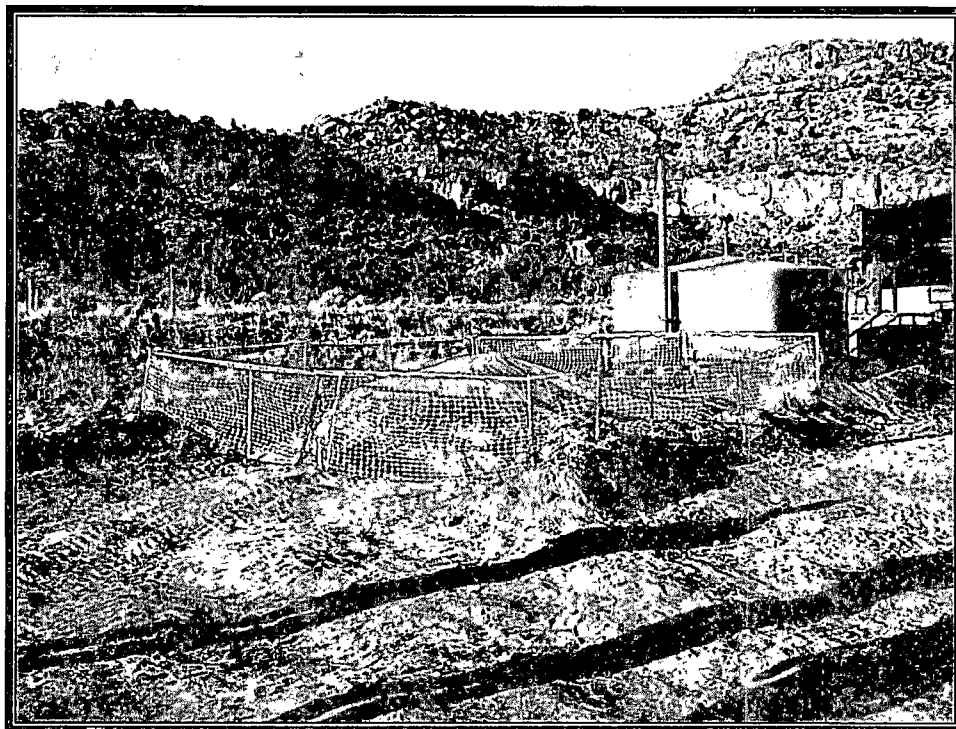


Photo 4: Soil Stockpiled On-Site

APPENDIX B

Analytical Results



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Analytical Laboratory

**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

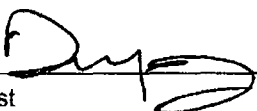
Client:	Slumberger	Project #:	97033-0019
Sample ID:	Waste Composite	Date Reported:	11-20-09
Laboratory Number:	52477	Date Sampled:	11-17-09
Chain of Custody No:	8435	Date Received:	11-18-09
Sample Matrix:	Soil	Date Extracted:	11-18-09
Preservative:	Cool	Date Analyzed:	11-19-09
Condition:	Intact	Analysis Requested:	8015 TPH

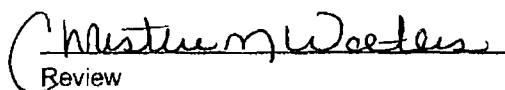
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	6.0	0.2
Diesel Range (C10 - C28)	20.9	0.1
Total Petroleum Hydrocarbons	26.9	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **SJ 30-6 #92N**


Analyst


Review



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EPA Method 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons

Quality Assurance Report

Client:	QA/QC	Project #:	N/A
Sample ID:	11-19-09 QA/QC	Date Reported:	11-20-09
Laboratory Number:	52477	Date Sampled:	N/A
Sample Matrix:	Methylene Chloride	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	11-19-09
Condition:	N/A	Analysis Requested:	TPH

	Test Date	Cal. RF	C-Cal. RF	% Difference	Accept. Range
Gasoline Range C5 - C10	05-07-07	9.1716E+002	9.1753E+002	0.04%	0 - 15%
Diesel Range C10 - C28	05-07-07	9.5336E+002	9.5374E+002	0.04%	0 - 15%

Blank Conc. (mg/L - mg/kg)	Concentration	Detection Limit
Gasoline Range C5 - C10	ND	0.2
Diesel Range C10 - C28	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

Duplicate Conc. (mg/kg)	Sample	Duplicate	% Difference	Accept. Range
Gasoline Range C5 - C10	6.0	6.1	1.7%	0 - 30%
Diesel Range C10 - C28	20.9	20.8	0.5%	0 - 30%

Spike Conc. (mg/kg)	Sample	Spike Added	Spike Result	% Recovery	Accept. Range
Gasoline Range C5 - C10	6.0	250	261	102%	75 - 125%
Diesel Range C10 - C28	20.9	250	267	98.5%	75 - 125%

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: QA/QC for Samples 52477, 52482, 52488, 52493 - 52494 and 52496.

Analyst

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**SUSPECTED HAZARDOUS
WASTE ANALYSIS**

Client:	Slumberger	Project #:	97033-0019
Sample ID:	Waste Composite	Date Reported:	11-19-09
Lab ID#:	52477	Date Sampled:	11-17-09
Sample Matrix:	Soil	Date Received:	11-18-09
Preservative:	Cool	Date Analyzed:	11-19-09
Condition:	Intact	Chain of Custody:	8435

Parameter	Result
-----------	--------

IGNITABILITY: **Negative**

CORROSIVITY: **Negative** **pH = 8.42**

REACTIVITY: **Negative**

RCRA Hazardous Waste Criteria

Parameter	Hazardous Waste Criterion
-----------	---------------------------

IGNITABILITY:	Characteristic of Ignitability as defined by 40 CFR, Subpart C, Sec. 261.21. (i.e. Sample ignition upon direct contact with flame or flash point < 60° C.)
---------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------

CORROSIVITY:	Characteristic of Corrosivity as defined by 40 CFR, Subpart C, Sec. 261.22. (i.e. pH less than or equal to 2.0 or pH greater than or equal to 12.5)
--------------	--------------------------------------------------------------------------------------------------------------------------------------------------------

REACTIVITY:	Characteristic of Reactivity as defined by 40 CFR, Subpart C, Sec. 261.23. (i.e. Violent reaction with water, strong base, strong acid, or the generation of Sulfide or Cyanide gases at STP with pH between 2.0 and 12.5)
-------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Reference: 40 CFR part 261 Subpart C sections 261.21 - 261.23, July 1, 1992.

Comments: **SJ 30-6 #92N.**

Analyst

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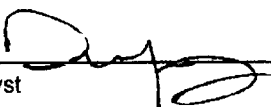
pH analysis

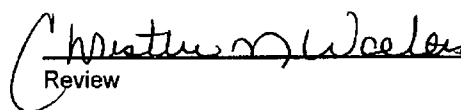
Client:	Slumberger	Project #:	97033-0019
Sample ID:	Spill Area (West)	Date Reported:	11-19-09
Laboratory Number:	52478	Date Sampled:	11-17-09
Chain of Custody:	8435	Date Received:	11-18-09
Sample Matrix:	Soil	Date Extracted:	11-19-09
Preservative:	Cool	Date Analyzed:	11-19-09
Condition:	Intact		

Parameter	Analytical Result	Units
pH	6.57	su

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: **SJ 30-6 #92N.**

Analyst 


Review



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pH analysis

Client:	Slumberger	Project #:	97033-0019
Sample ID:	Spill Area (East)	Date Reported:	11-19-09
Laboratory Number:	52479	Date Sampled:	11-17-09
Chain of Custody:	8435	Date Received:	11-18-09
Sample Matrix:	Soil	Date Extracted:	11-19-09
Preservative:	Cool	Date Analyzed:	11-19-09
Condition:	Intact		

Parameter	Analytical Result	Units
pH	7.95	su

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: SJ 30-6 #92N.

Analyst

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pH analysis

Client:	Slumberger	Project #:	97033-0019
Sample ID:	Background	Date Reported:	11-19-09
Laboratory Number:	52480	Date Sampled:	11-17-09
Chain of Custody:	8435	Date Received:	11-18-09
Sample Matrix:	Soil	Date Extracted:	11-19-09
Preservative:	Cool	Date Analyzed:	11-19-09
Condition:	Intact		

Parameter	Analytical Result	Units
pH	7.58	su

Reference: U.S.E.P.A., 600/4-79-020, "Methods for Chemical Analysis of Water and Wastes", 1983.

Comments: SJ 30-6 #92N.

Analyst

Review

CHAIN OF CUSTODY RECORD

8435

Client: <i>Slumberger</i>			Project Name / Location: <i>SJ 30-6 *92N</i>			ANALYSIS / PARAMETERS																	
Client Address:			Sampler Name: <i>G. Crabtree</i>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	pH	Sample Cool	Sample Intact					
Client Phone No.:			Client No.: <i>97033-0019</i>																				
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl Cool			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE	pH	Sample Cool	Sample Intact		
Waste Composite	11/17/09	1455	52477	Soil Solid	Sludge Aqueous	1-402									✓					✓	Y	Y	
Spill Area (West)	↓	1545	52478	Soil Solid	Sludge Aqueous	↓													✓		Y	Y	
Spill Area (East)		1535	52479	Soil Solid	Sludge Aqueous															✓		Y	Y
Background		1600	52480	Soil Solid	Sludge Aqueous																✓		Y
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
				Soil Solid	Sludge Aqueous																		
Relinquished by: (Signature) <i>Greg Crabtree</i>				Date 11/18/09	Time 0640	Received by: (Signature) <i>[Signature]</i>				Date 11/18/09	Time 0640												
Relinquished by: (Signature)						Received by: (Signature)																	
Relinquished by: (Signature)						Received by: (Signature)																	



envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com



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Analytical Laboratory

**EPA METHOD 8021
AROMATIC VOLATILE ORGANICS**

Client:	Schlumberger Well Service	Project #:	97033-0019
Sample ID:	Spill Material	Date Reported:	12-09-09
Laboratory Number:	52634	Date Sampled:	12-04-09
Chain of Custody:	8519	Date Received:	12-07-09
Sample Matrix:	Soil	Date Analyzed:	12-08-09
Preservative:	Cool	Date Extracted:	12-07-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1,120	0.9
Toluene	21,900	1.0
Ethylbenzene	7,660	1.0
p,m-Xylene	56,800	1.2
o-Xylene	21,000	0.9
Total BTEX	108,000	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: 30-6 #92M

Analyst

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EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	12-08-BT QA/QC	Date Reported:	12-09-09
Laboratory Number:	52623	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	12-08-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limit (ug/L)	Cal RF	C-Cal RF	% Diff	Blank Conc	Detect Limit
			Accept Range: 0 - 15%		
Benzene	1.3885E+006	1.3912E+006	0.2%	ND	0.1
Toluene	1.2945E+006	1.2971E+006	0.2%	ND	0.1
Ethylbenzene	1.1675E+006	1.1699E+006	0.2%	ND	0.1
p,m-Xylene	2.9472E+006	2.9531E+006	0.2%	ND	0.1
o-Xylene	1.1033E+006	1.1055E+006	0.2%	ND	0.1

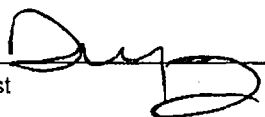
Duplicate Conc. (ug/Kg)	Sample	Duplicate	% Diff	Accept Range	Detect Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

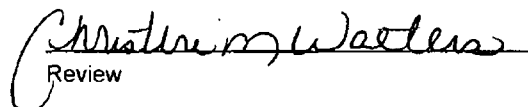
Spiked Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	49.4	98.8%	39 - 150
Toluene	ND	50.0	46.1	92.2%	46 - 148
Ethylbenzene	ND	50.0	45.3	90.6%	32 - 160
p,m-Xylene	ND	100	88.9	88.9%	46 - 148
o-Xylene	ND	50.0	51.5	103%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

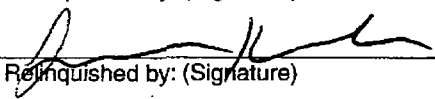
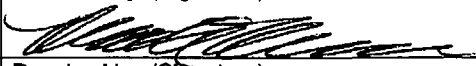
Comments: QA/QC for Samples 52623 - 52631, and 52634.

Analyst 

Review 

CHAIN OF CUSTODY RECORD

8519

Schlumberger Client: <u>Well Service</u> MB Slumber J			Project Name / Location: <u>30-6*92 M</u>			ANALYSIS / PARAMETERS														
Client Address:			Sampler Name: <u>J. Kitchner</u>			TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Client Phone No.:			Client No.: <u>97033-0019</u>																	
Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl ₂ HCl														
<u>Spill Material</u>	<u>12-7</u>	<u>1335</u>	<u>52634</u>	<u>Soil</u> Solid Aqueous	<u>4</u> 02														<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
				Soil Solid Aqueous																
				Soil Solid Aqueous																
				Soil Solid Aqueous																
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				Soil Solid Aqueous																
Relinquished by: (Signature)				Date	Time	Received by: (Signature)				Date	Time									
				<u>12-7</u>	<u>0655</u>					<u>12/7/09</u>	<u>0655</u>									
Relinquished by: (Signature)						Received by: (Signature)														
Relinquished by: (Signature)						Received by: (Signature)														



envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com

APPENDIX C

MSDS

**MATERIAL SAFETY DATA SHEET**

(USA)

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

Version: 2

Revision date: 21 October 2008

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: H015
Product name: Hydrochloric Acid 15% H15
Company identification: Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, Texas 77478, USA
Telephone: 1-281-285-7873
Emergency telephone number: USA: +1-281-595-3518 (24hr)

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****WARNING**

Main physical hazards: Corrosive to metals.
Main health hazards: Causes eye irritation. Causes skin irritation. Causes irritation if swallowed.
Other hazards: May cause respiratory tract irritation.
Precautions: Gives off hydrogen by reaction with metals.
Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling.
HMIS classification: Health: 2 Flammability: 0 Physical hazard: 0

Form: Liquid Color: Colorless - Light yellow Odor: Pungent
Principle routes of exposure:
Eye contact. Skin contact. Inhalation.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components classified as hazardous:

Component	CAS-No	Weight % - Range
Hydrochloric acid	7647-01-0	15

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.
Skin contact: After contact with skin, wash immediately with plenty of soap and water for at least 15 minutes. Seek medical attention.
Ingestion: DO NOT induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, minimize the risk of aspiration by properly positioning the affected person.
Inhalation: Move to fresh air. Obtain medical attention.

Schlumberger

Product code: H075

Revision date: 21 October 2005

5. FIRE-FIGHTING MEASURES

Fire hazard: Not combustible.
Flash point: Not combustible
Autoignition temperature: Not applicable.
Flammability limits in air:
Lower: Not applicable
Upper: Not applicable
Oxidizing properties: None.

Suitable extinguishing media:

The product itself does not burn. Use extinguishing media appropriate for surrounding material.

Extinguishing media which must not be used for safety reasons:

None known.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapors. Gives off hydrogen by reaction with metals.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus and protective suit.

NFPA rating:

Health: 3
Flammability: 0
Instability: 0
Special: None

6. ACCIDENTAL RELEASE MEASURES

Main physical hazards: Corrosive to metals.
Other hazards: Gives off hydrogen by reaction with metals.
Personal precautions: Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling. Ensure adequate ventilation. See also Section 8.
Methods for cleaning up: Dam up. Neutralize with lime milk or soda and flush with plenty of water. Flush residual with plenty of water.
Environmental precautions: No information available.

7. HANDLING AND STORAGE

Handling:

Precautions: Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling.

Safe handling advice: Keep airborne concentrations below exposure limits. Wear suitable protective equipment.

Technical measures/
storage conditions: Keep containers tightly closed in a dry, cool and well-ventilated place.Packaging requirements: High density polyethylene (HDPE) drum or can.
Incompatible products: Strong bases. Metals. Oxidizing agents.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Engineering measures
to reduce exposure: Control the source.



Product code: H015

Revision date: 21 October 2000

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Hygiene measures: Avoid contact with skin, eyes and clothing. Keep airborne concentrations below exposure limits. Do not breathe vapors or spray mist. Wear suitable protective equipment.

Respiratory protection: Use NIOSH approved respirator with organic vapor/acid gas protection (color coded yellow). Use SCBA (self contained breathing apparatus) in confined areas and for emergencies.

Eye protection: Tightly fitting safety goggles. Face-shield.

Hand protection: Impervious gloves. Butyl, Neoprene, Nitrile, Viton.

Skin and body protection: Chemical resistant apron. For spills and emergencies, also wear boots and impervious suit.

Occupational Exposure Limits

Component	ACGIH - TLVs			OSHA - PELs		
	TWA / Ceiling	STEL	Skin	TWA / C	STEL	Final PELs - Skin
Hydrochloric acid	2 ppm C			5 ppm C 7 mg/m ³ C		

Particles Not Otherwise Regulated/Specified [PNOR or PNOS] (insoluble or poorly soluble):
 OSHA PELs for Inert or Nuisance Dust are covered by PNOR limits: respirable fraction: 5 mg/m³; total dust 15 mg/m³.
 ACGIH PNOS Recommendations: airborne concentrations should be kept below 3 mg/m³, respirable particulate, and 10 mg/m³, inhalable particles.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical characterization: Inorganic acid.

Fire hazard: Not combustible.

Form: Liquid

Color: Colorless - Light yellow

Odor: Pungent

Odor threshold: No information available.

pH: < 2

Boiling point/range: No data available.

Flash point: Not combustible

Flammability limits in air:

Lower: Not applicable

Upper: Not applicable

Bulk density: Not applicable.

Melting point/range: < 0 °C / 32 °F

Decomposition temperature: No data available.

Solubility:

Water solubility: Soluble.

Fat solubility: No information available.

Partition coefficient (n-octanol/water): Not applicable.

Relative density: 1.1 (@ 16°C)

Vapor pressure: No data available.

Vapor density: > 1 (air = 1)

Viscosity: 1 mPa.s (@ 20 °C)

Evaporation rate: No data available.

% Volatile (VOC): 15

Schlumberger

Product code: H016

Revision date: 21 October 2006

10. STABILITY AND REACTIVITY**Stability:**

Stable under recommended storage conditions.

Conditions to avoid:

None known.

Incompatibility with other substances:

Metals. Bases. Oxidizers.

Hazardous decomposition products:

Chlorine, chlorine oxides, hydrogen chloride. May release hydrogen gas (explosive) on contact with metals.

Hazardous polymerization:

Hazardous polymerization does not occur.

Other hazards:

Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION**PRODUCT TOXICOLOGICAL INFORMATION****Acute Health Hazard****Eye contact:**

Severe eye irritation. Causes pain and redness. Prolonged or repeated contact may cause mild burn.

Skin contact:

Severe irritant; causes pain, redness, dermatitis or mild burn.

Ingestion:

Irritant; may cause pain or discomfort to mouth, throat and stomach.

Inhalation:

Irritant; may cause pain and coughing.

Sensitization - lung:

Not known to cause allergic reaction.

Sensitization - skin:

Not known to cause allergic reaction.

Toxicologically synergistic products:

None known.

Other information:

Prolonged exposure at low concentration may cause erosion of the teeth.

Chronic Health Hazard**Carcinogenic effects:**

None known.

Mutagenic effects:

Not known to cause heritable genetic damage.

Teratogenic effects:

Not known to cause birth defects or have a deleterious effect on a developing fetus.

Reproductive toxicity:

Not known to adversely affect reproductive functions and organs.

Target organ effects:

See COMPONENT TOXICOLOGICAL INFORMATION below.

COMPONENT TOXICOLOGICAL INFORMATION

Component	Target Organ Effects	LD50 / LC50
Hydrochloric acid	skin, eyes, respiratory system	= 3124 ppm (Inhalation LC50: Rat)

Component	IARC:	ACGIH - Carcinogens:	OSHA Regulated Carcinogens	NTP:
Hydrochloric acid		A4 - Not Classifiable as a Human Carcinogen		



Product code: H015

Revision date: 21 October 2009

12. ECOLOGICAL INFORMATION**PRODUCT INFORMATION****COMPONENT INFORMATION****Hydrochloric acid****Bioaccumulation:** Not applicable**Persistence / degradability:** The methods for determining biodegradability are not applicable to inorganic substances.**Freshwater Fish Species** = 282 mg/L (LC50; *Gambusia affinis*)**Data** = 3.6 mg/L (LC50; *Lepomis macrochirus*)**13. DISPOSAL CONSIDERATIONS****Waste from residues / unused products:**

Dispose of by injection or other acceptable method in accordance with local regulations.

Contaminated packaging:

If reusable containers are used, send them back to the product supplier, after the required rinsing. Triple rinse, crush and ship to sanitary landfill unless prohibited by local regulations.

EPA RCRA Hazardous Waste Code:

D002

14. TRANSPORT INFORMATION**DOT:****UNNA Number:** UN 1789
CERCLA RC: 3,720 gal (HCl)**Packing size:** < 3720 gals
Hazard class: 8**Proper shipping name:** Hydrochloric acid solution (15%), 8, UN 1789, PG II
Label(s): Corrosive 8**Packing size:** > 3720 gals
Hazard class: 8**Proper shipping name:** Hydrochloric acid solution (15%), 8, UN 1789, PG II, RC
Label(s): Corrosive 8**IMDG/IMO****Shipping name:** HYDROCHLORIC ACID SOLUTION (15%)
Label(s): Corrosive 8
Class or Div.: 8
UN number: UN 1789
Packing group: II
EMS: F-A, S-B



Product code: H015

Revision date: 21 October 2006

14. TRANSPORT INFORMATION**ICAO/IATA**

Shipping name:	Hydrochloric acid solution (15%)	
Label(s):	Corrosive 8	
Class or Div.:	8	
UN number:	UN 1789	
Packing group:	II	
Packing instruction (passenger aircraft):	809	Max Net Qty/Pkg: 1 L
Packing instruction (cargo aircraft):	813	Max Net Qty/Pkg: 30 L

TDS (Canada):

Shipping name:	HYDROCHLORIC ACID SOLUTION (15%), 8, UN 1789, PG II
Label(s):	Corrosive 8
PIN:	UN 1789
Class:	8
Packing group:	II

Note 1:

For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. REGULATORY INFORMATION**International Chemical Inventories**

Inventory - United States TSCA -	This product complies with TSCA requirements.
Canada DSL Inventory List -	This product complies with DSL requirements.
EC-No	This product complies with EINECS/ELINCS requirements.
China inventory of existing chemical substances list -	This product complies with China inventory requirements.
Inventory - Japan - Existing and New Chemicals list -	This product does not comply with JPENCS
Australia (AICS):	All the constituents of this material are listed on the Australian inventory of Chemical Substances (AICS).

U.S.A. Regulations

OSHA Hazard Communication Standard:
(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:
D002

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard:	YES
Delayed (Chronic) Health Hazard:	None
Fire Hazard:	None
Sudden Release or Pressure Hazard:	None
Reactive Hazard:	None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):

This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information



Product code: H015

Revision date: 21 October 2008

Hydrochloric acid

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4): Listed

CERCLA/SARA - Hazardous Substances and their RQs: 2270 kg final RQ

5000 lb final RQ

EPA, SARA TITLE III Section 304, Extremely Hazardous Substances (40 CFR 366.40): 500 lb TPQI gas only

California Proposition 65: None

International Hazard Class**WHMIS Hazard Class:**

E (CORROSIVE MATERIAL)

D2B (Other Toxic Effects - Toxic Material)

16. OTHER INFORMATION**Current references:**

1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. *American Conference of Governmental Industrial Hygienists, Cincinnati, OH.*
2. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. *World Health Organization, International Agency for Research on Cancer, Geneva, Switzerland.*
3. Annual Report on Carcinogens. National Toxicology Program. *U.S. Department of Health and Human Services, Public Health Service.*
4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). *National Institute for Occupational safety and Health, Cincinnati, OH.*
5. LOLI Database.

Explanation of terms:

ACGIH: American Conference of Governmental Industrial Hygienist
 ACGIH-TL: Threshold Limit Value
 DSL: Domestic Substance List
 HMIRC: Hazardous Materials Information Review Commission
 IARC: International Agency for Research on Cancer
 NTP: National Toxicology Program
 NIOSH: National Institute of Occupational Safety & Health
 NIOSH-REL: Recommended Exposure Limit
 OSHA: Occupational Safety & Health Administration
 OSHA-PEL: Permissible Exposure Limit
 TSCA: Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling
 Limit units: [mg/m³]

ACGIH Notations:

"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance.

"A" notation indicates carcinogenicity as follows:

ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.

"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

Section(s) revised: 4, 8

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: Well Services Safety & Environment (WSSE), Donald Graves.

Revision date: 21 October 2008

Schlumberger

Product code: H016

Revision date: 21 October 2008

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End of the Material Safety Data Sheet

**MATERIAL SAFETY DATA SHEET**

(USA)

(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

Version: 1

Revision date: 11 January 2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Product code: M003
Product name: Soda Ash M3
Company identification: Schlumberger Technology Corporation
110 Schlumberger Drive
Sugar Land, Texas 77478, USA
Telephone: 1-281-285-7873
Emergency telephone number: USA: 1-281-595-3518

2. HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW****CAUTION**

Main physical hazards: No classified physical hazards.
Main health hazards: May cause eye irritation. Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Other hazards: Dust. Corrosive to aluminum when wet.
Precautions: Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe dust.
HMIS classification: Health: 1 Flammability: 0 Physical hazard: 0 PPE: C, n

Form: Powder

Color: White

Odor: None

Principle routes of exposure:

Eye contact. Skin contact. Respiratory system.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components classified as hazardous:

Component	CAS-No	Weight % - Range
Sodium carbonate	497-19-8	60 - 100

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with water for 15 minutes while holding eyelids open. Seek medical attention.
Skin contact: Rinse with water. Seek medical attention if irritation occurs.
Ingestion: Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician if necessary.
Inhalation: Move to fresh air. Consult a physician if necessary.



Product code: M003

Revision date: 11 January 2006

5. FIRE-FIGHTING MEASURES

Fire hazard: Not combustible.
Flash point: Does not flash.
Autoignition temperature: Not applicable.
Flammability limits in air:

Lower: None

Upper: None

Oxidizing properties: None.

Suitable extinguishing media:

Use extinguishing media appropriate for surrounding material

Extinguishing media which must not be used for safety reasons:

None known

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases:

Thermal decomposition can lead to release of irritating gases and vapors.

Special protective equipment for firefighters:

Wear protective fire fighting clothing and avoid breathing vapors. Use self-contained breathing apparatus in closed areas.

NFPA rating:

Health: 1

Flammability: 0

Instability: 0

Special: None

6. ACCIDENTAL RELEASE MEASURES**Main physical hazards:** No classified physical hazards.**Other hazards:** Dust. Corrosive to aluminum when wet.**Personal precautions:** Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe dust.**Methods for cleaning up:** Sweep up and shovel into suitable containers for disposal. Flush residual with plenty of water.**Environmental precautions:** None known.**7. HANDLING AND STORAGE****Handling:****Precautions:** Avoid contact with eyes. Do not get on skin or clothing. Wash thoroughly after handling. Do not breathe dust.**Safe handling advice:** Wear suitable protective equipment. Ensure adequate ventilation.**Technical measures/
storage conditions:** Keep material dry. Do not store in contact with aluminum.**Packaging requirements:** Paper bag (minimum 3 ply), or other industrial container designed for powders and granulated materials.**Incompatible products:** Strong acids. Aluminium.**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**



Product code: M003

Revision date: 11 January 2008

Engineering measures to reduce exposure: Control the source.

Hygiene measures: Avoid contact with eyes. Keep airborne concentrations below exposure limits.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment. If dust or mist is generated use NIOSH approved respirator with dust and mist protection (3M 8210).

Eye protection: Tightly fitting safety goggles.

Hand protection: Impervious gloves. Butyl, PVC.

Skin and body protection: Clean, body-covering clothing.

Occupational Exposure Limits

	ACGIH - TLVs	OSHA - PELs
Nuisance dust:		
ACGIH: inhalable particulate TLV-TWA=10 mg/m ³ ; respirable particulate TLV-TWA= 3 mg/m ³		

9. PHYSICAL AND CHEMICAL PROPERTIES

Fire hazard: Not combustible.

Form: Powder

Color: White

Odor: None

Odor threshold: Not applicable.

pH: 11.6

pH concentration: @ 10.6 g/l

Boiling point/range: Not applicable.

Flash point: Does not flash.

Flammability limits in air:

Lower: None

Upper: None

Bulk density: Not determined.

Melting point/range: No data available.

Decomposition temperature: No data available.

Solubility:

Water solubility: 210 g/l (@ 20°C)

Fat solubility: No information available.

Partition coefficient (n-octanol/water): Not applicable.

Relative density: 2.6 (@ 20°C)

Vapor pressure: Not applicable.

Vapor density: Not applicable.

Viscosity: Not applicable.

Evaporation rate: No data available.

% Volatile: None.

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Conditions to avoid:

None reasonably foreseeable.

Incompatibility with other substances:

Strong acids. Aluminum.



Product code: M003

Revision date: 11 January 2006

Hazardous decomposition products:
None known.

Hazardous polymerization:
Hazardous polymerization does not occur.

Other hazards:
Dust. Corrosive to aluminum when wet.

11. TOXICOLOGICAL INFORMATION

PRODUCT TOXICOLOGICAL INFORMATION

Acute Health Hazard

Eye contact: Irritant. May cause pain, redness, discomfort.
Skin contact: No effect expected. Prolonged or repeated contact may cause mild irritation.
Ingestion: No effect expected. Swallowing large amounts may be harmful.
Inhalation: Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.
Sensitization - lung: None known.
Sensitization - skin: None known.

Chronic Health Hazard

Carcinogenic effects: None known.
Mutagenic effects: Not known to cause heritable genetic damage.
Teratogenic effects: Not known to cause birth defects or have a deleterious effect on a developing fetus.
Reproductive toxicity: Not known to adversely affect reproductive functions and organs.
Target organ effects: None known.

COMPONENT TOXICOLOGICAL INFORMATION

Component	Target Organ Effects	LD50 / LC50
Sodium carbonate		= 4090 mg/kg (Oral LD50; Rat)

12. ECOLOGICAL INFORMATION

PRODUCT INFORMATION

Aquatic toxicity:
Low toxicity to fish. See component information below.

COMPONENT INFORMATION

Sodium carbonate
Freshwater Fish Species Data = 320 mg/L (LC50; bluegill)



Product code: M003

Revision date: 11 January 2006

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products:**

Dispose of by sanitary landfilling or other acceptable method in accordance with local regulations.

Contaminated packaging:

Send empty bags to sanitary landfill. Render other types of containers unuseable by puncturing or crushing and sanitary landfill unless prohibited by local regulations. If reusable containers are used, send them back to the product supplier, after the required rinsing.

EPA RCRA Hazardous Waste Code:

None

14. TRANSPORT INFORMATION**DOT:**

CERCLA RQ:	None
Hazard class:	Not regulated.
Proper shipping name:	Not regulated
Label(s):	None required.

IMDG/IMO

Shipping name:	Not regulated.
UN number:	None

ICAO/IATA

Shipping name:	Not regulated.
UN number:	None

TDG (Canada):

Shipping name:	Not regulated.
PIN:	None

Note 1:

For the applicable placard selection refer to the appropriate transport regulations; the selection may vary depending on the cargo size and categories of other hazardous materials in the cargo.

15. REGULATORY INFORMATION**International Chemical Inventories**

Inventory - United States TSCA	- This product complies with TSCA requirements.
Canada DSL Inventory List	- This product complies with DSL requirements.
EC-No	This product complies with EINECS/ELINCS requirements.



Product code: M003

Revision date: 11 January 2006

China inventory of existing
chemical substances list -
Inventory - Japan - Existing
and New Chemicals list -
Australia (AICS):

This product complies with China inventory requirements.

This product does not comply with JPENCS

All the constituents of this material are listed on the Australian Inventory of
Chemical Substances (AICS).U.S.A. Regulations

OSHA Hazard Communication Standard:
(Complies with USA OSHA 29 CFR 1910.1200 and ANSI Z 400.1)

EPA RCRA Hazardous Waste Code:
None

EPA, Sections 311 and 312 - Material Safety Data Sheet Requirements (40 CFR 370):

Immediate (Acute) Health Hazard:	YES
Delayed (Chronic) Health Hazard:	None
Fire Hazard:	None
Sudden Release or Pressure Hazard:	None
Reactive Hazard:	None

EPA, Sections 313 - List of Toxic Chemicals (40 CFR 372):
This product contains the following substance(s), which appear(s) on the List of Toxic Chemicals:

Additional Regulatory Information

Sodium carbonate

EPA, CERCLA Section 102a/103 Hazardous Substances (40 CFR 302.4): None

CERCLA/SARA - Hazardous Substances and their RQs: None

EPA, SARA TITLE III Section 304, Extremely Hazardous Substances (40 CFR 355.40): None

California Proposition 65: None

International Hazard Class

WHMIS Hazard Class:
D2B (Other Toxic Effects - Toxic Material)

16. OTHER INFORMATION

Current references:

1. Threshold Limit Values for Chemical Substances and Physical Agents and Biological Exposure Indices. *American Conference of Governmental Industrial Hygienists, Cincinnati OH.*
2. IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Man. *World Health Organization, International Agency for Research on Cancer, Geneva, Switzerland.*
3. Annual Report on Carcinogens. National Toxicology Program. *U.S. Department of Health and Human Services, Public Health Service.*
4. NIOSH Registry of Toxic Effects of Chemical Substances (RTECS). *National Institute for Occupational safety and Health, Cincinnati, OH.*
5. LOLI Database.



Product code: 01003

Revision date: 11 January 2006

Explanation of terms:

ACGIH: American Conference of Governmental Industrial Hygienist
ACGIH-TL: Threshold Limit Value
DSL: Domestic Substance List
HMIRC: Hazardous Materials Information Review Commission
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
NIOSH: National Institute of Occupational Safety & Health
NIOSH-REL: Recommended Exposure Limit
OSHA: Occupational Safety & Health Administration
OSHA-PEL: Permissible Exposure Limit
TSCA: Toxic Substance Control Act (Inventory)

Occupational Exposure Limits indicators: TWA - Time Weighted Average; STEL - Short Term Limit; C - Ceiling
Limit; units: [mg/m³]

ACGIH Notations:

"Skin" refers to the potential significant contribution to the overall exposure by the cutaneous route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance.

"A" notation indicates carcinogenicity as follows:

ACGIH classification: A1 - Confirmed Human Carcinogen; A2 - Suspected Human Carcinogen; A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans; A4 - Not Classifiable as a Human Carcinogen; A5 - Not suspected as a Human Carcinogen.

"SEN" refers to the potential for an agent to product sensitization as confirmed by human and animal data.

Section(s) revised: MSDS fully updated in the new database.

Additional advice: Consult your supplier if the material is to be used for special applications such as in the food industry or for hygiene, medical or surgical end-use.

Prepared by: Well Services Safety & Environment (WSSE)

Revision date: 11 January 2006

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End of the Material Safety Data Sheet

APPENDIX D

Special Waste Shipment Records

SPECIAL WASTE SHIPMENT RECORD

WASTE MANAGEMENT OF NEW MEXICO, INC.

SAN JUAN COUNTY REGIONAL LANDFILL

PERMIT #SWM-052426, #SWM-052426SP

#78 CR 3140 P.O. Box 1402

Aztec, New Mexico 87410

505/334-1121

Shipment #

Profile # 100268NM
(Required)

1. Generator's Work site name and address (physical site address of waste generation) <u>301 E. 3rd St. Aztec, NM 87410</u>		
2. Generator's name and address <u>Sherry Anderson, Env. Scientist</u> <u>5796 US Hwy 66 NE</u> <u>Farmon, NM 87401</u>		Generator's Telephone no. <u>505-334-5046</u>
3. Authorized Agent name and address (if different from #2) <u>Envirotech, Inc.</u> <u>5796 US Hwy 66 NE</u> <u>Farmon, NM 87401</u>		Agent's Telephone no. <u>505-132-0615</u>
4. Description materials <u>Solid waste, A3 and HCL 5%</u>	5. Container's No. <u>1</u> Type <u>Truck</u>	6. Total Quantity (tons) <u>12</u> (yds) <u>20</u>
7. Special handling instructions		
8. GENERATOR or AUTHORIZED AGENT CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.		
Generator or Agent (Printed/typed name and title) <u>Sherry Anderson, Env. Scientist</u>	Generator or Agents Signature <u>[Signature]</u>	Month/Day/Year <u>12/1/09</u>
9. Transporter 1 (Acknowledgement of receipt of materials)		
Printed/typed name & title, address, telephone no. <u>Envirotech, Inc. Box 20015</u> <u>5796 US Hwy 66 NE</u> <u>Farmon, NM 87401</u>	Driver Signature <u>[Signature]</u>	Month/Day/Year <u>12-10-09</u>
10. Transporter 2 (Acknowledgement of receipt of materials)		
Printed/typed name & title, address, telephone no.	Driver Signature	Month/Day/Year <u>1/1</u>
11. Discrepancy indication space		
12. Waste disposal site Location co-ordinates (X, Y, Z) <u>N 36° 46.061' W 108° 02' 76.3" ELEV 5764</u>		
Received by name and title (Printed/typed) <u>M. [Signature]</u>	SJC Landfill Rep. Signature <u>[Signature]</u>	Month / Day / Year <u>12/17/09</u>

White/GEN

Yellow/LANDFILL

Pink/TRANSPORTER

Golden/GEN

san juan reproduction 98-165

SPECIAL WASTE SHIPMENT RECORD

WASTE MANAGEMENT OF NEW MEXICO, INC.

SAN JUAN COUNTY REGIONAL LANDFILL

PERMIT #SWM-052426, #SWM-052426SP

#78 CR 3140 P.O. Box 1402

Aztec, New Mexico 87410

505/334-1121

Shipment # _____

Profile # 100268 NM
(Required)

1. Generator's Work site name and address (physical site address of waste generation)

San Juan 3106 472 N. Section 33, Township 30N, Range 7W, R. Arapahoe County, NM

2. Generator's name and address

Generator's Telephone no.

Schlumberger
3106 Dyerfield Hwy
Farmington, NM 87401

505-326-5096

3. Authorized Agent name and address (if different from #2)

Agent's Telephone no.

Enviro-tech Inc.
5796 Hwy 64
Farmington, NM 87401

505-632-0615

4. Description materials

5. Container's

6. Total Quantity

Soil with Soda Ash MB and HCL 15%

No. 1 Type Truck

(tons) (yd3) 70

1-B

12yd

7. Special handling instructions

8. GENERATOR or AUTHORIZED AGENT CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highway in accordance with applicable international and government regulations. I hereby certify that the above named material does not contain free liquid as defined by 40CFR Part 258.28 and is not a hazardous waste as defined by 40CFR 261 or any applicable state law.

Generator or Agent (Printed/typed name and title)

Generator or Agents Signature

Month/Day/Year

Sherry Auckland, Env. Scientist

Sherry Auckland

12/12/09

9. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name & title, address, telephone no.

Driver Signature

Month/Day/Year

Driver: Verna Pettyjohn
Enviro-tech Inc.
5796 Hwy 64
Farmington, NM 87401

Verna Pettyjohn

12/17/09

10. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name & title, address, telephone no.

Driver Signature

Month/Day/Year

1/1

11. Discrepancy indication space

9# Date signed different than Date Brought in

12. Waste disposal site Location co-ordinates (X,Y, Z)

Elev 5788 N 32° 46.655 W 108° 02.781

Received by name and title (Printed/typed)

SJC Landfill Rep. Signature

Month / Day / Year

JANU BACA/Contentendant

JANU BACA

12/21/09

White/GEN

Yellow/LANDFILL

Pink/TRANSPORTER

Golden/GEN

san juan reproduction 98-165