Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 RECEIVEDRevised October 10, 2003

JUN 17 ZU District Office in accordance with Rule 116 on back side of form

# **Release Notification and Corrective Action**

Name of Co					OPE	RATOR			Initial F	Report 🗸	X Fina	al Report
	ompany	Southern U	nion Gas	Services	T	Contact Re	ose Slade					
Address 1	1507 W. 15	<sup>th</sup> Monahans	, Texas 7	9756		Telephone 1	No. 432-943-11					
Facility Nar	me Jal#	3 Glycol Re	lease	-		Facility Typ	e Gas Plant					
Surface Ow	ner South	nern Union (	Jas Servi	ces Mineral (	Dwner	<u> </u>			Lease N	Jo.	· · · ·	
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			Latitude	<u>32° 10' 35.16'</u>	' North		Longitude 10.	3° 10'	20.67" We	e <u>st</u>		
				NAT	URE	OF REL	EASE					
Type of Rele	ease Tri-eth	nylene Glycol				Volume of	Release 2-3 ba	rrels	Volume R	Recovered	None	
Source of Re	elease Glyc	ol Released th	nrough Fla	re Stack		Date and I 1/26/2010	Hour of Occurrenc	e	Date and 1/27/2010	Hour of Di @ 0300	scovery	
Was Immedi	ate Notice (	Given? Ye	es No X	Not Required		If YES, To	Whom?		<b></b> _;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;			
By Whom?			······································	*****		Date and I	lour					
Was a Water	course Read	ched?	]Yes >	ζ Νο		If YES, Ve	olume Impacting t	he Wa	tercourse.	•		
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Basin Environmental Consulting LLC

2800 Plains Highway P. O. Box 381 Lovington, New Mexico 88260 Office: (575) 396-2378 Fax: (575) 396-1429 jwlowry@basin-consulting.com

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## **REMEDIATION SUMMARY**

## AND

# SITE CLOSURE REQUEST

**Southern Union Gas Services** Jal #3 Glycol Release Lea County, New Mexico UNIT E, Section 33, Township 24 South, Range 37 East Latitude 32 ° 10' 35.16' North, Longitude 103 ° 10' 20.67" West 2503 0 6.17.10 NMOCD Reference # 1RP-2305

Prepared For:

Southern Union Gas Services 1507 West 15<sup>th</sup> Street Monahans, Texas 79756

Prepared By: Basin Environmental Consulting, LLC

May 2010

Saoz lower

Joel W. Lowry **Project Manager** 

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Table 1 - Concentrations Tri-ethylene Glycol in Soil

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Appendix A – Laboratory Analytical Reports

Appendix B – Site Photographs

Appendix C – Material Safety Data Sheet (MSDS)

Appendix D – Release Notification and Corrective Action (Form C-141)

#### **1.0 INTRODUCTION**

Basin Environmental Consulting, LLC (Basin), on behalf of Southern Union Gas Services (Southern Union), has prepared this Remediation Summary and Site Closure Request for the release site known as Jal #3 Glycol Release. The site is located in Unit Letter E, Section 33, Township 24 South, Range 37 East, in Lea County, New Mexico. The property is owned by Southern Union Gas Services. The site latitude is 32° 10' 35.16" North, and the longitude is 103° 10' 20.67" West. Site Location and Site and Sample Location Maps are provided as Figure 1 and Figure 2, respectively. The Release Notification and Corrective Action (NMOCD Form C-141) indicated two (2) to three (3) barrels of tri-ethylene glycol (glycol) was released from a flare stack, with no recovery. A Material Safety Data Sheet for tri-ethylene glycol is provided as Appendix C. The Release Notification and Corrective Action form is provided as Appendix D.

On January 27, 2010, Southern Union discovered a release from a flare stack at the Southern Union Gas Jal #3 Plant. The release was attributed to manual valve being opened to quickly during glycol sweetening activities. Approximately 2,000 square feet (sq ft) of soil was impacted by airborne glycol and 1000 sq ft was impacted by liquid glycol. During initial response activities, the valve was closed and the saturated soil was excavated and stockpiled on location on top of a 6-mil poly liner, pending final disposition.

#### 2.0 NMOCD SITE CLASSIFICATION

A search of the New Mexico Office of the State Engineer (NMOSE) database indicated depth to groundwater information was unavailable for Section 33, Township 24 South, Range 37 East. A depth to groundwater reference map utilized by the New Mexico Oil Conservation Division (NMOCD) indicates the depth to groundwater is approximately two hundred twenty-five (225) feet bgs. The depth to groundwater in this area results in a score of zero (0) points being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the site, resulting in zero (0) points being assigned to the site as a result of this criteria. There are no surface water bodies located within 1,000 feet of the site. Based on the NMOCD ranking system zero (0) points will be assigned to the site as a result of the criteria.

The NMOCD guidelines indicate the Jal #3 Glycol release site has a ranking score of zero (0).

#### 3.0 SUMMARY OF FIELD ACTIVITIES

On February 8, 2010, remedial activities commenced at the location. Visually impacted soil was excavated and stockpiled adjacent to the location on a 6-mil poly liner, pending final disposition. The excavation floor and sidewalls were advanced until visual and olfactory test indicated the glycol impacted soil had been removed. Approximately forty-eight (48) cubic yards (cy) of impacted soil was transported from the location to Sundance Services, Inc (NMOCD Permit # NM-01003) for disposal. The final dimensions of the excavation were approximately twelve (12) feet in width by two hundred (200) feet length and two (2) to eight (8) inches in depth. Site Photographs are provided in Appendix B.

On February 16, 2010, three (3) soil samples (South, Center and North) were collected from the excavation and submitted to the laboratory for analysis of glycol concentrations. The laboratory analytical results indicated glycol concentrations were less than the laboratory method detection limit (MDL) in all the soil samples submitted. A summary of analytical results are provided in Table 1. Laboratory analytical results are provided in Appendix A.

#### 4.0 QA/QC PROCEDURES

#### 4.1 Soil Sampling

Soil samples were delivered to Xenco Laboratories, Inc. of Odessa, TX, for tri-ethylene glycol analyses using the method described below. Soil samples were analyzed for tri-ethylene within fourteen days following the collection date.

The soil samples were analyzed as follows:

• **Tri-ethylene glycol** concentrations in accordance with EPA Method 8015 M SW8015G SUB:T104704295-TX

#### 4.2 Decontamination of Equipment

Cleaning of the sampling equipment was the responsibility of the environmental technician. Prior to use, and between each sample, the sampling equipment was cleaned with Liqui-Nox<sup>®</sup> detergent and rinsed with distilled water.

#### 4.3 Laboratory Protocol

The laboratory was responsible for proper QA/QC procedures after signing the chain-ofcustody form. These procedures were either transmitted with the laboratory reports or are on file at the laboratory.

#### 5.0 SITE CLOSURE REQUEST

**O** 

Based on the analytical results of the confirmation soil samples, Basin recommends Southern Union provide the NMOCD Hobbs District Office a copy of this Remediation Summary and Site Closure Request and request the NMOCD grant site closure to the Jal #3 Glycol Release site.

#### 6.0 LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Site Closure Request to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Southern Union Gas Services. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Consulting, LLC and/or Southern Union Gas Services.

### 7.0 **DISTRIBUTION:**

Ā

Copy 1:	Geoffrey Leking
-	New Mexico Energy, Minerals and Natural Resources Department
	Oil Conservation Division (District 1)
	1625 French Drive
	Hobbs, New Mexico 88240
Copy 2:	Rose Slade
10	Southern Union Gas Services
	1507 West 15 <sup>th</sup>
	Monahans, Texas 79756
Copy 3:	Joel W. Lowry
	Basin Environmental Service Technology, LLC
	P.O. Box 301
	Lovington, New Mexico 88260
	jwlowry@basin-consulting.com

# Figures

1

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Prepared By Basin Environmental Consulting

# Tables

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TABLE 1

CONCENTRATION OF TRIETHYLENE GLYCOL IN SOIL

SOUTHERN UNION GAS SERVICES Jai #3 GLYCOL RELEASE LEA COUNTY, NEW MEXICO

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		SOIL	METHOD: EPA 8015 M SW8015G SUB:T104704295-TX
SAMPLE LOCATION	DATE	STATUS	Triethylene Glycol (mg/Kg)
South	02/16/10	In-Situ	<10.8
Center	02/16/10	In-Situ	<10.5
North	02/16/10	In-Situ	<10.7
	and a start of the		

# Appendices

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# Appendix A Laboratory Analytical Reports

# Analytical Report 362482

for

# **Basin Environmental Consulting, LLC**

**Project Manager: Curt Stanley** 

Jal # 3 Glycol Release Southern Union Gas Services

24-FEB-10





12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295)



24-FEB-10



Project Manager: **Curt Stanley Basin Environmental Consulting, LLC** P.O. Box 381 Lovington, NM 88260

Reference: XENCO Report No: 362482 Jal # 3 Glycol Release Project Address: Lea County, NM

#### **Curt Stanley:**

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 362482. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 362482 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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### Sample Cross Reference 362482

### Basin Environmental Consulting, LLC, Lovington, NM

Jal # 3 Glycol Release

Sample Id	Matrix	Date Collected Sa	mple Depth	Lab Sample Id
South	S	Feb-16-10 10:00		362482-001
Center	S	Feb-16-10 10:10		362482-002
North	S	Feb-16-10 10:20		362482-003



Client Name: Basin Environmental Consulting, LLC Project Name: Jal # 3 Glycol Release



Project ID:Southern Union Gas ServicWork Order Number:362482

Report Date: 24-FEB-10 Date Received: 02/17/2010

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None

#### Analytical Non Conformances and Comments:

Batch: LBA-794314 Percent Moisture None

Batch: LBA-795180 Glycol by EPA 8015 M SW8015G

Batch 795180, Triethylene Glycol recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Samples affected are: 362482-002, -001, -003. The Laboratory Control Sample for Triethylene Glycol is within laboratory Control Limits





# Certificate of Analysis Summary 362482

Basin Environmental Consulting, LLC, Lovington, NM

Project Name: Jal # 3 Glycol Release



Project Id: Southern Union Gas Services

Contact: Curt Stanley

Project Location: Lea County, NM

Date Received in Lab: Wed Feb-17-10 08:12 am

Report Date: 24-FEB-10

								<b>Project Manager:</b>	Brent Barron, II	
	Lab Id:	362482-0	001	362482-0	02	362482-0	03			
Analysis Provested	Field Id:	South		Center		North				
Analysis Requested	Depth:									, II
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Feb-16-10	10:00	Feb-16-10 I	10.10	Feb-16-10 1	10:20			
Glycol by EPA 8015 M	Extracted:									
SUB: T104704295-TX	Analyzed:	Feb-23-10	15:49	Feb-23-10 1	16.03	Feb-23-10 1	16·13			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Triethylene Glycol		ND	10.8	ND	10.5	ND	10.7			
Percent Moisture	Extracted:					~				
	Analyzed:	Feb-17-10	17:00	Feb-17-10 1	17:00	Feb-17-10 1	7:00			
	Units/RL:	%	RL	%	RL	%	RL			
Percent Moisture	1	7.28	1.00	5.19	1.00	6.79	1.00			

Thus analytical report, and the entire data package it represents, has been made for your exclusive and confidential use The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented Our hability is limited to the amount invoiced for this work order unless otherwise agreed to in writing

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Brent Barron, II

Odessa Laboratory Manager





- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

\* Outside XENCO's scope of NELAC Accreditation.

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(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116





# Project Name: Jal # 3 Glycol Release

#### Work Order #: 362482

#### Project ID: Southern Union Gas Services

Lab Batch #: 795180 Date Analyzed: 02/23/2010	Sample: 795180- Date Prepared: 02/23/20	-1-BKS 010	Matrix: Solid Analyst: JBU								
Reporting Units: mg/kg	Batch #: 1	BLANK /	BLANK SPI	KE REC	COVERY S	STUDY					
Glycol by EPA 8015 M	Blank Result	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags					
Analytes	1/-5		IC)	[D]							
Triethylene Glycol	ND	200	166	83	60-140						

Blank Spike Recovery [D] = 100\*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

#### Project Name: Jal # 3 Glycol Release



Work Order # : 362482						Project I	D: Southe	m Union (	Gas Services	;	
Lab Batch ID: 795180	QC- Sample ID:	362482	-001 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed: 02/23/2010	Date Prepared:	02/23/2	010	An	alyst:	JBU				,	
Reporting Units: mg/kg		M	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY :	STUDY		
Glycol by EPA 8015 M	Parent Sample	Spike	Spiked Sample Result	Spiked Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Triethylene Glycol	ND	216	122	56	216	104	48	15	60-140	30	X

Matrix Spike Percent Recovery [D] = 100\*(C-A)/B Relative Percent Difference RPD = 200\*|(C-F)/(C+F)| Matrix Spike Duplicate Percent Recovery [G] = 100\*(F-A)/E

 $ND = Not Detected, J \approx Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit$ 



# Sample Duplicate Recovery



#### Work Order #: 362482

Lab Batch #: 794314 Date Analyzed: 02/17/2010 D: QC- Sample ID: 362482-001 D	ate Prepared: 02/17/201 Batch #: 1	0 Ana Mat	Project I lyst: WRU trix: Soil	D: Southern	Union Gas	Services
Reporting Units: %	SAMPLE	/ SAMPLE	DUPLIC	ATE REC	OVERY	
Percent Moisture	Parent Sample Result IAI	Sample Duplicate Result	RPD	Control Limits %RPD	Flag	
Analyte	(· · · )	<b>[B]</b>			: :	
Percent Moisture	7 28	7.35	1	20		

Project Name: Jal # 3 Glycol Release

Spike Relative Difference RPD 200 \* | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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	Project Manager: Curt Stanle	/	···		<u>,                                    </u>			<u></u>								-	Pr	ojec	t Na	me:	Jal	#3	Gly	col	Rela	as	Ð				
	Project Manager:       Curt Stanley         Company Name       Basin Environmental Consulting, LLC         Company Address:       P. O. Box 381         City/State/Zip:       Lovington, NM 88250											<u> </u>				-		P	rojec	t#:	Sou	the	ern l	Unic	on (	Sas	Ser	vice	5		
	Company Address: P. O. Box 3	81														-	I	Proj	ect í.	oc:	Lea	Cou	nty,	NM							
	City/State/Zip: Lovington,	NM 88260										_				_			P	)#:_				_							
	Telephone No: (575,-441-22	44)	• <b>•</b> •			Fax No	:	(50	<b>)</b> 5) 3	96-1	429				-	F	Repor	rt Fo	rmat	.	X.	Stan	dard			T [	RP			IPDE	ŝ
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LAB # (lath use only)	FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	8	HNO <sub>3</sub>	HCI	H <sub>5</sub> SO.	HORN CAR	None	Other ( Specify)	DW - Orinking Water SL - Sludg	GW - Groundwatter 5-Soli/Sol NP-Mon-Potable Specify Oth	TPH: 418.1 8015M 8015	TPH: TX 1005 TX 1006	Cations (Ca. Mg. Na, K)	Antions (CI, SO4, Alkalimity)	SAR / ESP / CEC	Volatilas As Ag ta Co Cr Po Hg S Volatilas	Semivolatilas	BTEX 80218/5030 or BTEX 826	RCI	N.O.R.M.	Triethylene Glycol		RUSH TAT (Pre-Schodule) 24, 4	
21	South				02/16/10	1000	_	1	X				+		$\left[ - \right]$	<u>s</u>	oil	┨	$\left[ - \right]$	-+	+	╇	+	+	╇	<b> </b>	$\square$	x	4	╇	Ŧ
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## Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client:	Basin Environmental
Date/ Time:	2/17/10 08:12
Lab ID # :	362482
Initials:	AS

#### **Sample Receipt Checklist**

**Client Initials** Yes °Ō No **O**. ţ #1 Temperature of container/ cooler? (Yes) No Shipping container in good condition? #2 AS. No Not Present 1 Custody Seals intact on shipping container/ cooler? POR #3 No Not Present Yes #4 Custody Seals intact on sample bottles/ container? Yes No #5 Chain of Custody present? Sample Instructions complete of Chain of Custody? Yes No #6 Chain of Custody signed when relinquished/ received? (Yes) No #7 Chain of Custody agrees with sample label(s)? Yes No ID written on Cont./ Lid #8 : 1 (Yes) 1 No #9 Container label(s) legible and intact? Not Applicable #10 Sample matrix/ properties agree with Chain of Custody? No Yes 1 #11 Containers supplied by ELOT? Yes No #12 Samples in proper container/ bottle? Yes No See Below 2 (Yee #13 Samples properly preserved? No See Below #14 Sample bottles intact? (Yes) No #15 Preservations documented on Chain of Custody? (Yes) No #16 Containers documented on Chain of Custody? No (es) #17 Sufficient sample amount for indicated test(s)? No NE See Below #18 All samples received within sufficient hold time? 65 No See Below #19 Subcontract of sample(s)? Yes No Not Applicable #20 VOC samples have zero headspace? Not Applicable Yes No

#### **Variance** Documentation

Contact:	Nauba	_ Contacted by:	Date/ Time:	
Regarding: H 10	1/Subl	as soul	-Dallas	·
2/11 # 4 Corrective Action Take	<u></u> en:	43 Sent		
			·	
Check all that Apply:		See stached e-mail/ fax Client understands and would like Cooling process had begun shorti	to proceed with analysis y after sampling event	
			, ,	1

Appendix B Site Photographs

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Photograph of Impacted Area (looking north) at the Jal #3 Glycol Release.



Photograph of Completed Remedial Activates (looking northwest) at the Jal #3 Glycol Release.

# Appendix C Material Safety Data Sheet

MSDS Number: T5382 \* \* \* \* \* Effective Date: 05/17/01 \* \* \* \* \* Supercedes: 06/02/98



# **TRIETHYLENE GLYCOL**

# **1. Product Identification**

Synonyms: Ethanol, 2,2'-[1,2-ethanediylbis(oxy)]bis-; triglycol; ethylene glycol dihydroxy-diethyl ether CAS No.: 112-27-6 Molecular Weight: 150.20 Chemical Formula: C6H14O4 Product Codes: J.T. Baker: W660 Mallinckrodt: 2735

# 2. Composition/Information on Ingredients

Ingredient Hazardous	CAS No	Percent
Triethylene Glycol Yes	112-27-6	90 - 100%

# 3. Hazards Identification

#### **Emergency Overview**

-----

#### WARNING! CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

#### J.T. Baker SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

\_\_\_\_\_

Health Rating: 0 - None Flammability Rating: 1 - Slight Reactivity Rating: 0 - None Contact Rating: 1 - Slight Lab Protective Equip: GOGGLES; LAB COAT Storage Color Code: Orange (General Storage)

#### **Potential Health Effects**

#### Inhalation:

No adverse health effects expected from inhalation.

#### **Ingestion:**

No adverse effects expected.

#### **Skin Contact:**

Prolonged exposure may cause skin irritation.

#### **Eye Contact:**

Splashing in eye causes irritation with transitory disturbances of corneal epithelium.

However, these effects diminish and no permanent injury is expected. Vapors are nonirritating.

#### **Chronic Exposure:**

Possible skin irritation.

**Aggravation of Pre-existing Conditions:** 

No information found.

# 4. First Aid Measures

#### Inhalation:

Remove to fresh air. Not expected to require first aid measures.

#### **Ingestion:**

If large amounts were swallowed, give water to drink and get medical advice.

#### **Skin Contact:**

In case of contact, immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops..

#### Eye Contact:

If splash occurs, immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Call a physician.

# 5. Fire Fighting Measures

#### Fire:

Flash point: 177C (351F) CC Autoignition temperature: 371C (700F) Flammable limits in air % by volume: lel: 0.9; uel: 9.2 Slight fire hazard when exposed to heat or flame. **Explosion:** 

Above the flash point, explosive vapor-air mixtures may be formed.

#### Fire Extinguishing Media:

Water spray, dry chemical, alcohol foam, or carbon dioxide. Water or foam may cause frothing.

#### **Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

# 6. Accidental Release Measures

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area. Keep unnecessary and unprotected personnel from entering. Contain and recover liquid when possible. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not flush to sewer!

# 7. Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from heat, ignition sources and oxidizing agents. Protect from freezing. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

# 8. Exposure Controls/Personal Protection

Airborne Exposure Limits:
None established.
Ventilation System:
Not expected to require any special ventilation.
Personal Respirators (NIOSH Approved):
Not expected to require personal respirator usage.
Skin Protection:
Wear protective gloves and clean body-covering clothing.
Eye Protection:
Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

# 9. Physical and Chemical Properties

#### **Appearance:**

Clear, colorless liquid. Odor: Odorless. Solubility: Miscible in water. Specific Gravity: 1.1274 @ 15C/4C pH: No information found. % Volatiles by volume @ 21C (70F): 100 Boiling Point: 285C (545F) Melting Point: -5C (23F)

```
Vapor Density (Air=1):

5.17

Vapor Pressure (mm Hg):

< 0.01 @ 20C (68F)

Evaporation Rate (BuAc=1):

0.01
```

# 10. Stability and Reactivity

Stability:
Stable under ordinary conditions of use and storage. Hygroscopic.
Hazardous Decomposition Products:
Carbon dioxide and carbon monoxide may form when heated to decomposition.
Hazardous Polymerization:
Will not occur.
Incompatibilities:
Strong oxidizers.
Conditions to Avoid:

Heat, flames, ignition sources and incompatibles.

# **11. Toxicological Information**

# **12. Ecological Information**

#### **Environmental Fate:**

0

When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material is expected to leach into groundwater. When released into the soil, this material is not expected to evaporate significantly. When released into water, this material is expected to readily biodegrade. When released into water, this material is not expected to evaporate significantly. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals. When released into the air, this material is expected to have a half-life of less than 1 day.

#### **Environmental Toxicity:**

This material is expected to be slightly toxic to aquatic life. The LC50/96-hour values for fish are between 10 and 100 mg/l.

# **13. Disposal Considerations**

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

# **14. Transport Information**

Not regulated.

# **15. Regulatory Information**

```
-----\Chemical Inventory Status - Part 1\-----
_ _ _ _ _ _ _ _ _
 Ingredient
                                  TSCA EC Japan
Australia
 -----
                                  ---- ----
- - - - - - -
 Triethylene Glycol (112-27-6)
                                  Yes Yes
                                         Yes
Yes
 ------
                                       --Canada--
 Ingredient
                                  Korea DSL NDSL
Phil.
     ----
                                           ---- -
 Triethylene Glycol (112-27-6)
                                   Yes Yes No
Yes
 -----\Federal, State & International Regulations - Part 1\------
_ _ _ _ _ _ _ _ _
                              -SARA 302- ----SARA
313----
```

Ingredient RQ TPQ List Chemical Catg. ----\_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ No No Triethylene Glycol (112-27-6) No No -----\Federal, State & International Regulations - Part 2\----------RCRA- -TSCA-CERCLA 261.33 8(d) Ingredient ---------- -----Triethylene Glycol (112-27-6) No No No Chemical Weapons Convention: No TSCA 12(b): No CDTA: No SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No Reactivity: No (Pure / Liquid)

#### Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

#### WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

# **16. Other Information**

NFPA Ratings: Health: 1 Flammability: 1 Reactivity: 0
Label Hazard Warning:
WARNING! CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.
Label Precautions:
Avoid contact with eyes, skin and clothing.
Wash thoroughly after handling.
Label First Aid:
In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes. Call a physician.
Product Use:
Laboratory Reagent.
Revision Information:
No changes.
Disclaimer:

Mallinckrodt Baker, Inc. provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose. MALLINCKRODT BAKER, INC. MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT TO WHICH THE INFORMATION REFERS. ACCORDINGLY, MALLINCKRODT BAKER, INC. WILL NOT BE RESPONSIBLE FOR DAMAGES RESULTING FROM USE OF OR RELIANCE UPON THIS INFORMATION.

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#### \*\*\*\*\*\*

**Prepared by:** Environmental Health & Safety Phone Number: (314) 654-1600 (U.S.A.)

Appendix D Release Notification and Corrective Action (Form C-141)

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#### 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	X Initial Report	Final Report
Name of Company Southern Union Gas Services	Contact Rose Slade		
Address 1507 W. 15th Monahans, Texas 79756	Telephone No 432-943-1100	ext. 1116	
Facility Name Jal #3 Glycol Release	Facility Type Gas Plant		

Surface Owner Southern Union Gas Services | Mineral Owner

Lease No.

LOCATION OF RELEASE API# 30.025-38822.00.00								
Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	33	24S	37E					Lea
	1	l						
1				1	1			l .

Latitude 32° 10' 35.16" North Longitude 103° 10' 20.67" West

## NATURE OF RELEASE

Type of Release Tri-ethylene Glycol	Volume of Release 2 - 3 barrels	Volume Recovered None		
Source of Release Glycol Released through Flare Stack	Date and Hour of Occurrence         Date and Hour of Discovery           1/26/2010 @ 0300         1/27/2010 @ 0300			
Was Immediate Notice Given? Yes No X Not Required	If YES, To Whom?			
By Whom?	Date and Hour			
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.			
If a Watercourse was Impacted, Describe Fully.*				
	WATE	R9225		

Describe Cause of Problem and Remedial Action Taken:

During glycol "sweeting" activities at the South Plant, a volume of glycol was expelled through the northeast flare stack when a manual valve was opened too quickly. During initial response activities saturated soil was scraped and stockpiled on-site pending transportation to a NMOCD approved landfill.

Describe Area Affected and Cleanup Action Taken.

An approximately 1,000 sq ft area below the flare stack was impacted by liquid glycol, an area of approximately 2,000 sq ft was impacted by airborne glycol. Impacted area will be remediated to applicable NMOCD regulatory levels.

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 operators 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 egulations.

in the second second	<b>OIL CONSERVATION DIVISION</b>			
Signature: Volo 1000		ENV ENGINEER.		
Printed Name: Rose Slade		Approved by DISTITCI Supervisor: Yerff Rakinz		
Title: EHS Compliance Specialist		Approval Date: 65/03/10	Expiration D	2) Date: 07/08/10
E-mail Address: rose.slade@sug.com		Conditions of Approval: SUBMIT FINAL		
Date: 2/4/10	Phone: 432-940-5147	C-141 BY 02/06/10		IRP-10-5-2503