District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rió 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

Form C-141
Revised August 8, 2011
Convete appropriate District Office to

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office to accordance with 19.15.29 NMAC.

Release Notificati	on and Co	rrective A	ction	,			
	OPERA'	TOR	Initia	al Report			
Name of Company Burlington Resources Oil & Gas Company		ystal Tafoya					
Address 3401 East 30 th St, Farmington, NM Facility Name: Schumacher 1		No.(505) 326-98 he: Gas Well	37				
Surface Owner BLM Mineral Owner	r BLM (SF-0'	77764)	API No	.30-045-09	511		
	ON OF RE			r			
Unit Letter Section Township Range Feet from the Not G 17 30N 10W 1750	th/South Line North	Feet from the 1650	East/West LineEast	County San Juan			
Latitude <u>36.81433</u> Longitude <u>107.90352</u>							
NATUR	E OF REL	EASE					
Type of Release Produced Water	Volume of				11 BBLS		
Source of Release Pumping Unit	Date and I Unknown	lour of Occurrenc	I	Hour of Disc	•		
Was Immediate Notice Given?	If YES, To	Whom?	11/4/2013	3 at 2:30 PM	<u> </u>		
☐ Yes ☐ No ☒ Not Require							
By Whom?	Date and I						
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Vo	lume Impacting t					
	RCVD JAN 22'14						
If a Watercourse was Impacted, Describe Fully.* N/A			Į.	DIL CONS	.DIV.		
IVA		DIST. 3					
Describe Cause of Problem and Remedial Action Taken.*							
Equipment replaced and started without proper communication al	lowing 14bbls	of Produced Wat	er to overflow fro	m the pit. T	he location was		
immediately shut-in and a water truck called to location. 11bbls w							
Describe Area Affected and Cleanup Action Taken.*	r c r 1	6 W 1 B 1					
NMOCD action levels for releases are specified in NMOCD's Guide score of 20. Samples were collected and analytical results were abo							
cubic yards of soil was transported to a third party landfarm. Exce	avation and co	ifirmation sampl	ing occurred. An	alytical resu	ılts for TPH,		
BTEX and Chlorides were below the regulatory standards set forth therefore no further action is required. The final report is attached	in the NMOC	D Guidelines for	Remediation of L	eaks, Spills	and Release;		
therefore no further action is required. The imarreport is attached	i ioi ieview.						
I hereby certify that the information given above is true and complete to	o the best of my	knowledge and u	nderstand that purs	uant to NMC	OCD rules and		
regulations all operators are required to report and/or file certain release public health or the environment. The acceptance of a C-141 report by							
should their operations have failed to adequately investigate and remed	iate contaminati	on that pose a thre	eat to ground water	, surface wat	ter, human health		
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.	t does not reliev	e the operator of i	responsibility for co	ompliance w	ith any other		
reucial, state, or local laws and/or regulations.		OIL CONS	SERVATION	DIVISIO	N		
10 Tolor		<u> </u>		1	<u> </u>		
Signature:		n		μ	′ \		
	Approved by	Environmental S	pecialist:	$M \rho \gamma K f$	the		
Printed Name: Crystal Tafoya		. 1.1		<u> </u>	-		
Title: Field Environmental Specialist	Approval Da	:: 9/4/2014	Expiration	Date:			
E-mail Address: crystal.tafoya@conocophillips.com	Conditions o	f Approval:		Attachad			
		* *		Attached			
Date: 1/16/2014 Phone: (505) 326-9837							



January 15, 2014

Project Number 92115-2523

Ms. Crystal Tafoya ConocoPhillips 3401 East 30th Street Farmington, New Mexico 87402

Phone: (505) 215-4361 Fax: (505) 599-4005

RE: SPILL ASSESSMENT DOCUMENTATION FOR THE SCHUMACHER #1 (HBR) WELL SITE, SAN JUAN COUNTY, NEW MEXICO

Dear Ms. Tafoya,

Enclosed please find the field notes and analytical results for spill assessment activities performed at the Schumacher #1 well site located in Section 17, Township 30 North, Range 10 West, San Juan County, New Mexico; see enclosed *Site Map*. The below ground tank (BGT) at the above referenced well site overflowed, releasing approximately 14 barrels (bbls) of produced water into the surrounding area, of which 11 bbls were recovered; see enclosed *Field Notes*. Upon Envirotech personnel's arrival on November 6, 2013, a brief site assessment was conducted. Because depth to groundwater was greater than 100 feet, nearest surface water was less than 200 feet, and the well site was not located within a well head protection area, the regulatory standards for the site were determined to be 100 parts per million (ppm) total petroleum hydrocarbons (TPH) and 100 ppm organic vapors, pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills, and Releases.

On November 6, 2013, one (1) five (5)-point composite soil sample was collected from the surface of the northern area between the berms, surrounding the BGT; see enclosed *Field Notes*. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides using a Quantab field chloride strip. The sample returned a result above the regulatory standard for TPH and organic vapor; see enclosed *Field Notes*, *Analytical Results*, and *Summary of Analytical Results*. The Quantab field chloride strip returned a result of 479 ppm for chlorides; see enclosed *Field Notes* and *Summary of Analytical Results*.

One (1) soil sample was then collected from four (4) feet below ground surface (BGS) near the BGT; see enclosed *Site Map* for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using a PID, and for chlorides using a Quantab field chloride strip. The sample returned a result below the regulatory standard for TPH, but above the regulatory standard for organic vapor; see enclosed *Field Notes*, *Analytical Results*, and *Summary of Analytical Results*. The Quantab field chloride strip returned a result of non-detect for chlorides; see enclosed *Field Notes* and *Summary of Analytical Results*.

ConocoPhillips Schumacher #1 (hBr) Spill Assessment and Confirmation Sampling Report Project Number 92115-2523 Page 2

One (1) four (4)-point composite soil sample was then collected from the perimeter of the visually contaminated area between the berm; see enclosed *Site Map* for sample location. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using a PID, and for chlorides using a Quantab field chloride strip. The sample returned a result below the regulatory standard for TPH and organic vapor; see enclosed *Field Notes*, *Analytical Results*, and *Summary of Analytical Results*. The Quantab field chloride strip returned a result of non-detect for chlorides; see enclosed *Field Notes* and *Summary of Analytical Results*.

Therefore, Envirotech made the recommendation to excavate approximately 45 feet by 35 feet by four (4) feet BGS of contaminated soil along the northern end of the area between the berms surrounding the BGT, followed by re-sampling for closure; see enclosed *Site Map*.

ConocoPhillips personnel contacted Envirotech, Inc. on November 20, 2013, with a notification that excavation activities had been completed and requested that Envirotech return to the above referenced location to conduct confirmation sampling activities.

Upon Envirotech personnel's arrival on November 20, 2013, five (5) five (5)-point composite soil samples were collected from the excavated area: north wall, west wall, south wall, east wall, and bottom; see enclosed *Site Map* and *Field Notes*. All five (5) samples were analyzed in the field for TPH using USEPA Method 418.1 and for organic vapors using a PID. All five (5) composite samples returned results below the regulatory standard for TPH and organic vapors see enclosed *Field Notes*, *Analytical Results*, and *Summary of Analytical Results*. Therefore, Envirotech, Inc. recommends no further action in regards to this incident.

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

Respectfully submitted,

ENVIROTECH, INC.

Tittatry McLatos Staff Scientist

tmcintosh@envirotech-inc.com

Enclosure(s): Site Map

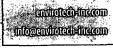
Summary of Analytical Results

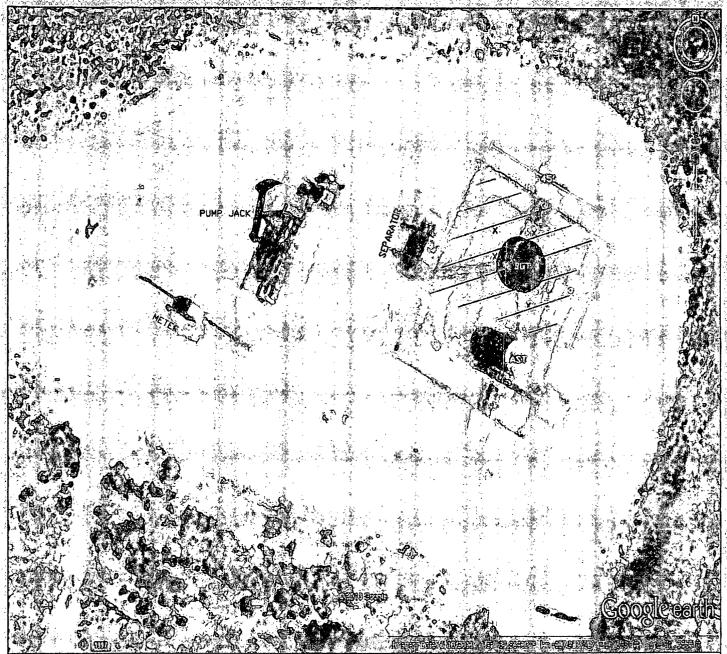
Analytical Results

Field Notes

Cc:

Client File 92115





LEGEND

- SAMPLE 1:
 - SURFACE COMPOSITE
- SAMPLE 2
 - 4 FEET BGS
- SAMPLE 3: PERIMETER COMPOSITE



RECOMMENDED AREA TO EXCAVATE

SITE MAP ConocoPhillips Schumacher #1 (hBr) SECTION 17, TWP 30 NORTH, RANGE 10 WEST SAN JUAN COUNTY, NEW MEXICO

REVISIONS DATE DESCRIPTION 11/8/13 BASE DRWN TLM

FIGURE NO.



SCALE:

envirotech

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

Table 1, Summary of Analytical Results ConocoPhillips Schumacher #1 (hBr) Spill Assessment and Confirmation Sampling Report San Juan County, New Mexico Project Number 92115-2523

Sample Description	Sample Number	Date	TPH 418.1 (ppm)	Chloride - Field Strip (ppm)	OVM (ppm)
NMOCD/RCRA Standards	NA	NÁ	100	N/A	100
Surface Composite	1	11/6/2013	864	479	2045
4 Feet BGS	2	11/6/2013	8	ND	200
Perimeter Composite	3	11/6/2013	ND	ND	3.0
North Wall Composite	1	11/20/2013	76	NS	3.6
West Wall Composite	2	11/20/2013	80	NS	2.4
South Wall Composite	3	11/20/2013	72	NS.	0.9
East Wall Composite	4	11/20/2013	56	NS	3.0
Bottom Composite	5	11/20/2013	52.	NS	3.8

NS = Not Sampled ND = Non-Detect at Stated Method's Detection Limit * Values In **BOLD** above regulatory standards

Conoco Philli	ps (hBr)	C		NVIIO 9) 632-0348 (6 1.0. Hay 60, Fana		B 401	(COC No:	7-2523 JONE
FIELD REPORT: SP LOCATION: NAME: 5 QUAD/UNIT: G	chumaci	nev	WELL#:	1.	CNTY: 5.T		DATE FINI	RTED: \$3 11/6/1
QTR/FOOTAGE: N/A EXCAVATION APPROX:			CONTRAC	TOR: N/A		Welder.	SPECIALIS	RDAGE: NA
DISPOSAL FACILITY: NA LANDUSE: N/A			LEASE:	REMEDIATION N/A	ON METHO	D: NA	NER: N/	A
CAUSE OF RELEASE: † A SPILL LOCATED APPROXIM	MATELY:	55'	FT. a	30°	FROM C	mp jack		er ~14 bbls
DEPTH TO GROUNDWATE NMOCD RANKING SCORE: SOIL AND EXCAVATION D	former	overthose	NMOCD T	PH CLOSURE	STD:	100	PPM	WATER: 50'
SOIL AND EXCAVATION D Arrived on site	, a hea	vy odor	ie ver	y appar	ent,			
NO Samples sul Made the Veconome	b mitted ndotion	for la	boratoi ate 45	y analy	1515, t	Reloyed 365	results	to Crystali
SAMPLE DESCRIPTION			<u></u>	WEIGHT (g)			READING	CALC. ppm
Surface composite	1010			5	20	<u> </u>	शिक्क	<u>୫</u> ଟେ ଧ
Resimeter composite	1033	3		<u>5</u> .5	90 90	4	<u>a</u>	<u>8</u> 4
								
SPILL PERI	METER		. 4 8.	OVM RESULTS			SPILL P	ROFILE V
N			SAMPLE ID	FELD ITEAD John 2044 200	n)			15'
1/7	y pipe		3		3:0		AST)
MR D	PT		3 3	0		-13		3
_	SEP		SAMPLE ID	AB SAMPLE ANALYSIS	TIME	3	* 4	BGT a
(AST)	(BGT)					7		
		1				الحال		23 / (1)
TRAVEL NOTES:	CALLEDOU	Ţ:			ONSITT:	1-5-pt 2=1-pt 3=4-pt	grab sa	mple @ 4 BBS ex composite su
		*******	-			V// - 15	- CUAINA PI	naed area to

excavate to a depth of 41

lien: COPC (hBr)		E. C.	PRVIFO (505) 632-6316 (6 U.O. Huy 60, Fam	000) 9 92-1071	Š	COC No:	5-2523 JONE	
TELD REPORT: SP OCATION: NAME: Sc QUAD/UNIT: G YTR/FOOTAGE: N/A	humacher	WELL#			ST: NM	DATE FIN	ARTED: 11/20	13
EXCAVATION APPROX: DISPOSAL FACILITY: NA AND USE: NA CAUSE OF RELEASE: +an EPILL LOCATED APPROXIN DEPTH TO GROUNDWATE	K overflow MATELY: 551	X NA LEASE: FT. REST WATER S	MATERIAL	ON MBTHO RELEASED: FROM pur	D: NH LANDOW produce no lack	NER: NA	ARDAGE: NA	
MOCD RANKING SCORE: OIL AND EXCAVATION D OUT FLECT Cryst. EXCAUATION NO.	al that ev	onfirma erythiu s	. 4	mplina in the	field.	er tx	CAUGHION	
200 Standard North Comp (wall) West compl (wall) South Comp (wall) East comp (wall) Battom comp	(520 - 1537 1539 1541 1543		5 5 5 5 5	20 20 20 20 20 20		191 19 - 30 - 18 - 14 - 13	76 80 78 56 56	
SPILL PERI	IMETER	SAMPLI ID	(00)	m)	N	SPILL F	PROFILE	
J MR	P5 SEP	2 3 4 5 SAMPL 1D	LAB SAMPLI			(57)	* * * * * * * * * * * * * * * * * * *	× × × × × ×
(AST)	(BGT)				5 -	c 1	composite	4



Client:

ConocoPhillips

Project #:

92115-2523

Sample No.3

1

Date Reported:

11/8/2013

Sample ID:

Surface Composite

11/6/2013

Sample Matrix:

Soil

Date Sampled: Date Analyzed:

11/6/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		 	1 5 M 1 1 1 1 1	the state of the s
	·			Det.
		Conce	ntration	Limit
Parameter		 (mg	g/kg)	(mg/kg)

Total Petroleum Hydrocarbons

864

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste; USEPA Storet No. 4551, 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

Printed

Toni McKnight, EIT



Client:

ConocoPhillips

Project #:

92115-2523

Sample No.:

2

Date Reported:

11/8/2013

Sample ID:

4 Feet BGS

Date Sampled:

11/6/2013

Sample Matrix:

Soil

Date Analyzed:

11/6/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

8

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551; 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

neview

Toni McKnight, EIT







Client:

ConocoPhillips

Project #:

92115-2523

Sample No.:

3

Date Reported:

11/8/2013

Sample ID:

Perimeter Composite

Date Sampled:

11/6/2013

Sample Matrix:

Soil

Date Analyzed:

11/6/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

A CANADA AND AND AND AND AND AND AND AND AN		<u> </u>
		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

ND

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978;

Comments:

Schumacher #1 (hBr)

instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

Toni McKnight, EIT

Printed

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal	Date.
1 .	1 1 3 1 1 1 1 1

6-Nov-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
TPH	100		
	200	198	
	500		
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Liftania Medatash	11/8/2013
Analyst	Daţe
Tiffany McIntosh	
Print Name	
Tom Me high	11/8/2013
Review	Date

Toni McKnight, EIT

Print Name

5796 US Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 . Fr (800) 362-1879

व्यक्तानी क्षेत्रकार्यक्षा क्ष्मित्रकार्यक्षा क्ष्मित्रकार्यक्ष्मित्रकार्यक्ष



Client:

ConocoPhillips

Project #:

92115-2523

Sample No.:

1

Date Reported:

11/21/2013

Sample ID:

North Wall Composite

Date Sampled:

11/21/2013

Sample Matrix:

Soil

Date Analyzed:

11/20/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

		the state of the s	A STATE OF THE STA
	et e e e e e e e e e e e e e e e e e e		Det.
		Concentration	Limit
Parameter	<u> </u>	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

76

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

neview

Toni McKnight, EIT



Client:

ConocoPhillips

Project #:

92115-2523

Sample No.:

2

Date Reported:

11/21/2013

Sample ID:

West Wall Composite

Date Sampled:

11/20/2013

Sample Matrix:

Soil

Date Analyzed:

11/20/2013

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

\$ 40 p.ss		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

80

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

Toni McKnight, EIT





Client:

ConocoPhillips

Sample No.:

3

South Wall Composite

Sample ID: Sample Matrix:

Soil

Preservative:

Cool

Condition:

Cool and Intact

Project #:

92115-2523

Date Reported:

11/21/2013

Date Sampled: Date Analyzed:

11/20/2013 11/20/2013

Analysis Needed:

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)
A STATE OF THE STA		

Total Petroleum Hydrocarbons

72

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

Toni McKnight, EIT Printed

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





Client:

ConocoPhillips

4

East Wall Composite

Sample Matrix:

Soil Cool

Preservative:

Sample No.:

Sample ID:

e: C

Condition:

Cool and Intact

Project #:

92115-2523

Date Reported:

11/21/2013

Date Sampled: Date Analyzed: 11/20/2013 11/20/2013

Analysis Needed:

TPH-418.1

	 			Det.
1		Concentrati	ion	Limit
Parameter	 	(mg/kg)	<u> </u>	(mg/kg)

Total Petroleum Hydrocarbons

56

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Tiffany McIntosh

Printed

Toni McKnight, EIT

Printed

Ph (505) 632-0615 Fx (505) 632-1865

Ph (970) 259-0615 Fr (800) 362-1879





Client:

ConocoPhillips

Bottom Composite

Project #:

92115-2523

Sample No.:

5

Date Reported:

11/21/2013

Sample ID:

Soil

Date Sampled:

11/20/2013

Sample Matrix: Preservative:

Cool

Date Analyzed:
Analysis Needed:

11/20/2013 TPH-418.1

Condition:

Cool and Intact

1 of the second	the state of the s	A Programme of the Control of the Co
		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

52

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978,

Comments:

Schumacher #1 (hBr)

Instrument calibrated to 200 ppm standard and zeroed before each sample.

Allays

Tiffany McIntosh

Printed

Toni McKnight, EIT





CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

20-Nov-13

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	1. 24.
ТРН	100		
	200	191	
	500		
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Tillany Muntath	11/21/2013		
Andigst	Date		
Tiffany McIntosh			
Print Name			
Toni Melenight	11/21/2013		
Review	Date		
u·			

Toni McKnight, EIT

Print Name