			SECTION D. CERTIFICATION
Repo obtain know	rt and all attached docu ning the information, I v ledge. I understand that	ments erify the s	nave personally examined and am familiar with the information submitted in this Annual and that based upon my inquiry of those individuals immediately responsible for that the submitted information is true, accurate and complete to the best of my ubmission of false information herein is made subject to the penalties of 18 Pa. C.S. on to authorities, which include fine and imprisonment.
Checl	k the following, if applicab	le:	
	I certify the information and has not chang		ired in Section B-1, General Properties was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	I certify the information and has not chang	•	ired in Section B-2, Chemical Analysis was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	I certify the information r	•	ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Name	of Responsible Official		Title Environmental Specialist
Dina I Signa	Brown ture	0	Date 2/25/11

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10112525

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PAGE: PO#:

1 of 2

10112525

WO#:

AF78425

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

01-023

RECEIVED FOR LAB BY: SCP	DATE:	11/16/2010 16:40			Pa	age 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG		ab ID: 10112525-001A	Grab			
SAMPLED BY: SG	Sample	Time: 11/16/2010 14:56	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 172 mg/Kg	EPA 9071	172	11/18/10 14:40	11/18/10	
Sample Note: Analysis performed	d by Microbac Laboratories, I	nc-Erie Division.				
SAMPLE: Air Cuttings	L.	ab ID: 10112525-001B	Grab			
SAMPLED BY: SG	Sample	Time: 11/16/2010 14:56				
			SLOQ			
Test	Result	<u>Method</u>	2.04	Analysis Start	Analysis End	
Moisture	25.2 %	Moisture Calc.	0.01	11/17/10 9:00	11/18/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	11/17/10 9:00	11/17/10	IC-SA
pH	10.20@24.1°C	EPA 9045C		11/17/10 16:52	11/17/10	SG-SA
SAMPLE: Air Cuttings	Ĺ	ab ID: 10112525-001C	Grab	•		
SAMPLED BY: SG	Sample	Time: 11/16/2010 14:56				
T	Decul		SLOQ	Ameliania Chad	Analosis Fool	A b 4 *
<u>Test</u> Sodium	Result	Method EPA 6010B	100.0	Analysis Start 11/18/10 9:00	Analysis End 11/18/10	
	1390 mg/Kg-dry					GSR-CV
Chloride	429 mg/Kg-dry	EPA 300.0	67.1	11/18/10 15:13	11/19/10	HDP-CV
Percent Moisture	25.2 %	SM2540G		11/17/10 9:00	11/18/10	IC-SA
SAMPLE: TCLP Leachate of Air Cu	ttings L	ab ID: 10112525-001E	Grab			
SAMPLED BY: SG	Sample	Time: 11/17/2010 8:00	0.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	11/17/10 9:00	11/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	11/18/10 13:15	,	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15		GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15		GSR-CV
Copper - Forn extracted	< 0.100 mg/c	EFA OUTOD	J. 100	11/10/10 13.13	1 1/10/10	GOK-UV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Value above calibration range but within annually verified linear range

MANAGER	(Mui M Savis	DATE:	11/19/2010
	and M. Out-		

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10112525

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10112525

PAGE:

2 of 2

PO#:

AF78425

PHONE:

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(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

01-023

RECEIVED FOR LAR BY: SCD

DAT	C: 11/1	0/2010 10:40			F	age 2 of 2
< 0.500 mg/L		EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
< 0.100 mg/L		EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
< 0.500 mg/L		EPA 6010B	0.500	11/18/10 13:15	11/18/10	G\$R-CV
< 0.100 mg/L		EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
40.1 mg/L	L	EPA 6010B	0.200	11/18/10 13:15	11/18/10	GSR-CV
	< 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L	< 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L	< 0.100 mg/L EPA 6010B < 0.500 mg/L EPA 6010B < 0.100 mg/L EPA 6010B	< 0.500 mg/L EPA 6010B 0.500 < 0.100 mg/L EPA 6010B 0.100 < 0.500 mg/L EPA 6010B 0.500 < 0.100 mg/L EPA 6010B 0.100	< 0.500 mg/L	< 0.500 mg/L

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Value above calibration range but within annually verified linear range

	\nearrow	· ·	
MANAGER	_i Carri	M. Davis	

DATE: 11/19/2010

GONTACT Steve Gridley TRANSPORT TO LABORATORY IN COOLER WITH ICE BILL TO: Talisman TO ANALYSIS TO BE PERFORMED SAMPLING POINT ANALYSIS TO BE PERFORMED CONTAINER SAMPLING POINT ARE SPECIAL DETECTION LIMITS NEEDED! YES I ZINO IF YES, PLEASE ATTACH IF YES, PLEASE ATTACH IF YES, PLEASE ATTACH REQUIREMENTS PLEASE FILL ATION IF YES, PLEASE ATTACH REQUIREMENTS PLEASE FILL ATION ANALYSIS TO BE PERFORMED (PER CONTAINER) ANALYSIS TO BE PERFORMED (PER CONTAINER) LAB USE ONLY ANALYSIS TO BE PERFORMED (PER CONTAINER) LAB USE ONLY ARE SPECIAL DETECTION LIMITS NEEDED! YES IZINO IF YES, PLEASE ATTACH REQUIREMENTS IF YES, PLEASE ATTACH REQUIREMENTS PLEASE FILL ATION ANALYSIS TO BE PERFORMED (PER CONTAINER) LAB USE ONLY ANALYSIS TO BE PERFORMED (PER CONTAINER) LAB USE ONLY	CHAIN OF CUSTODY								PAGE1C	OF1
REFRIGERATE SAMPLES AFTER COLLECTION Date Date	REPORT TO: Talisman / UEG							Maria		
REFRIGERATE SAMPLES AFTER COLLECTION Date Date	geowetlands@aol.com							W/O#: 10112525		
AFTER COLLECTION AFTER COLLECTION DW DRINKING WATER SL SLUDGE GW GROUND WATER SO SOIL TRANSPORT TO STEVE Gridley TRANSPORT TO DE DEIONIZED WATER DI DISTILLED WATER DE DEIONIZED WATER DE DEIONIZE DE DEIONIZED WATER DE DEIONIZE DE DEIONIZED WATER DE DE DEIONIZED WATER DE DE DEIONIZED WATER DE DE	goonom	DEE	DICED	ATE C A	LADI T	-c				_
CONTACT Steve Gridley TRANSPORT TO LABORATORY IN COOLER WITH ICE TRANSPORT TO LABORATORY IN COOLER WITH ICE THO SODIUM SULFITE NH, AMMONIUM CHLORIDE This SODIUM SULFITE NH, AMMONI						:5	/m		IF YES, PLEASE ATTACH	4
TRANSPORT TO DEIONIZED WATER OTHER DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER IF YES, PLEASE ATTACH REQUIREMENTS ANALYSIS TO BE PERFORMED (PER CONTAINER) LAB USE ONLY THAM IF YES, PLEASE ATTACH REQUIREMENTS IF YES, PLEASE ATTACH REQ		-					/ GV	GROUND WATER SO SOIL		
HANDER SIGNATURE / AFFILIATION SAMPLER SIGNATURE / AFFILIATION CONTAINER SAMPLING POINT LABORATORY IN COOLER WITH ICE HYDROCHLORIC ACID AS ASCORBIC ACID AC ACETIC ACID	CONTACT Steve Gridley	1	TRANS	PORT		,	,		☐YES [7	JNO
1 Air Cuttings] .	-	_			DE	DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER	IF YES, PLEASE ATTACH	1 REQUIREMENTS
1 Air Cuttings							18	S SULFURIC ACID AS ASCORBIC ACID		
1 Air Cuttings	BILL TO: Talisman		WITH	ICE	/	/ /		/ N NITRIC ACID AC ACETIC ACID / SO ₃ SODIUM SULFITE NH, AMMONIUM CHLORIDE /	/ / % /	
1 Air Cuttings	PO# A		7	7	\neg		§ /	This sodium thiosulfate zn zinc acetate NONE How MERCURIC CHI ORIDE	}/\$/	
1 Air Cuttings	PPOJECT DESCRIPTION		/	J.W.		/ 3		An incomplete chain of custody may delay the	Please	
1 Air Cuttings	01-023	۱,		/ *	A KATA	/ E /		processing of your sample(s).	applica con	
1 Air Cuttings	Sour use		\$ / L		4/4	¥/.	ž ^y / š	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
1 Air Cuttings	CONTAINER SAMPLING POINT	\$		1 25	/ ঐ	/ 3	\$ / &	ANALYSIS TO BE PERFORMED (PER CONTAINER)	/ LAB USE (ONLY
pH, Chlorides, Sodium	1 Air Cuttings	11/16	1456	50				distribution of the contract o		
	2							pH, Chlorides, Sodium		
3 TOLP 8 RCRA Metals + Cu, Ni, Zh	3							TCLP 8 RCRA Metals + Cu, Ni, Zn		
4 A - TPH Free Liquids / % Moisture	4 A - TPH							Free Liquids / % Moisture		
5 B-pH, free Liquid, 1. moisture	5 B-DH. Free Liquid . 1. moist	ure								
6 C- Anians, Metals Perform BTEX ONLY IF the TPH	6 C- Anions, metals							Perform BTEX ONLY IF the TPH		
7 D- Total Sangle exceeds 100,000 mg/Kg	7 D- Total Sangle							exceeds 100,000 mg/Kg		
8 E- TCLP metals										74
9 <u>ブン</u> HOUR TURNAROUND	i i							クシ HOUR TURNAROUND		
10 DAY TURNAROUND	10							DAY TURNAROUND		
	11									
LAB USE ONLY THE PROPERTY OF T	LAB USE ONLY								BC ADDIVA	a vija
AND THE RESIDENCE OF THE PROPERTY OF THE PROPE	THE PERMIT NEWSTRANDS								V_AARRIVAL	
RELINOUISHER BY: DATE: // // // // RECEIVED BY: DATE: // IME:	RELINATISHED BY:		[DATE:	161	0	TIME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY: DATE: TIME: RECEIVED BY: DATE: TIME:	RELINQUISHED BY:				017			· · · · · · · · · · · · · · · · · · ·	DATE:	TIME:

RECEIVED BY:

DATE: TIME: 110:40

Ad Graphics Printing 570-888-0685

DATE:

TIME:

RELINQUISHED BY:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120839

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS:

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10120839

PAGE:

1 of 1

PO#:

AF78425

PHONE: FAX:

(607) 731-0145 (607) 562-4001 **TEST REPORT**

PWS ID#

01-023

RECEIVED FOR LAB BY: CMS

DATE: 12/06/2010 15:40

Page 1 of 1

TROCITED FOR EACH DIT. ONC	DA	L. 12/00/2010 10.40			1.0	age I of I
SAMPLE: Inv. Cuttings		Lab ID: 10120839-001A	Comp	osite		yan ta
SAMPLED BY: SG	Sa	mple Time: 12/06/2010 10:30				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst '
Total Petroleum Hydrocarbons	42500 mg/Kg	EPA 9071		12/08/10 14:20	12/08/10	raidiyot
Sample Note: Analysis performed	by Microbac Laborator	ies, Inc-Erie Division				
SAMPLE: Inv. Cuttings		Lab ID: 10120839-001B	Compe	osite		
SAMPLED BY: SG	Sai	mple Time: 12/06/2010 10:30	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u> </u>	Analysis Start	Analysis End	Analyst *
Moisture	37.7 %	Moisture Calc.	0.01	12/06/10 17:30	12/07/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	12/06/10 17:20	12/06/10	IC-SA
рН	8.23@21.7°C	EPA 9045C		12/07/10 14:20	12/07/10	MED-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttinas	Lab ID: 10120839-001E	Compo	osite		

1gs	Fab ID:	10120839-001E	Compo	site		
Sar	mple Time:	12/07/2010 8:00				
			SLOQ	_		
<u>Result</u>		<u>Method</u>		Analysis Start	Analysis End	Analyst *
< 0.0008 mg/L		EPA 7470A	0.0008	12/07/10 10:15	12/09/10	KW-CV
< 0.500 mg/L		EPA 6010B	0.500	12/08/10 12:15	.12/08/10	GSR-CV
< 10.00 mg/L		EPA 6010B	10.00	12/08/10 12:15	12/08/10	GSR-CV
< 0.100 mg/L		EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
< 0.500 mg/L		EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
< 0.100 mg/L		EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
< 0.500 mg/L		EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
< 0.100 mg/L		EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
< 0.500 mg/L		EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
< 0.100 mg/L		EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
39.5 mg/L	L	EPA 6010B	0.200	12/08/10 12:15	12/08/10	GSR-CV
	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.100 mg/L < 0.100 mg/L < 0.100 mg/L	Sample Time: Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.100 mg/L < 0.100 mg/L	Sample Time: 12/07/2010 8:00 Result Method < 0.0008 mg/L	Sample Time: 12/07/2010 8:00 Result Method < 0.0008 mg/L	Sample Time: 12/07/2010 8:00 Result Method Analysis Start < 0.0008 mg/L	Sample Time: 12/07/2010 8:00 Result Method Analysis Start Analysis End < 0.0008 mg/L

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Davis	DATE:	12/10/2010

CHAIN OF CUSTODY											PAGE 1	OF1
Talisman / UEG		•									CARE AGGOLAL DETEC	
geowetlands@aol.com						1	N/O#:	10120839	9		ARE SPECIAL DETECTION NEEDED: YES /	
	ł		ATE SA		S	DW GV	DRINKING WATER	R SL SLUDGE	INCODE O ONÉ BE	ING USED FOR:	IFYES, PLEASE ATTA	
CONTACT Steve Gridley	,	FD A MC	SPORT			/ sw w	SURFACE WATER		LAN	IDFILL	YES	 INO
PH# 607-731-0145	·	T			/	DE	DEIONIZED WATE		ER PERSONAL OTH	IER	IF YES, PLEASE ATTA	CH REQUIREMENTS
FAX#			ATORY	<i>!</i>		1	/ H HYD	DROCHLORIC ACID OH	SODIUM HYDROXIDE		/ /5/	
BILL TO: Talisman		WITH		_/	/ /		S SUL N NITE SO ₃ SOO Thio SOO	DIUM THIOSULFATE ZN	ASCORBIC ACID ACETIC ACID AMMONIUM CHLORIE ZINC ACETATE	DE C	Ley On Hell	
PO# AF 78425 PROJECT DESCRIPTION 01-023 SAMPLER SIGNATURE / AFFILIATION UEC	/	The Samples	SAMPLING SAME	SAMO	Jeg John St. Go.	PRESC MITALS	Ar Ar	n incomplete chain of cus processing of your	sample(s).	COMPOSITE COMPOS	Pleas appli co	se fill out all cable areas ompletely
CONTAINER SAMPLING POINT	8		/ \$	\\&	\ \sigma_{\omega}	\ \{\tilde{\xi}		ANALYSIS TO BE PERFORM (PER CONTAINER)	MED	18/8/	/ LAB USE	ONLY
1 Inv Cuttings	12/6	1030	50	C	50	N	TPH	·	,		Ecologia	
2							рН					
3							TCLP 8 RCF	RA Metals + Cu, l	Ni, Zn			
4							Free Liquids	/ % Moisture				
5 001A - TPH												
	ej.	mo	stu	æ,			Perform BTE	EX ONLY IF the T	PH			
6 B. pH, Free liquid, 7 C- Amons, metals							exceeds	100,000 mg/Kg				
8 0- Total Sample												
9 E- TCLP metals.							72	_HOUR TURNAF	ROUND			
10						l		DAY TURNARO	DUND			
11												
LAB USE CNLY DEILIVER EDIBLY								TEMPERATUL	REUPON RECE	т <u>(</u> 5).	SC ARRIVAL	ONICECEA
RELINOUISHEDOR		[ATE:	610	ا ن	IME:	YU REC	CEIVED BY:			DATE:	TIME:
RELINQUISHED BY:			ATE:	,		IME:		CEIVED BY:	Λ Λ		DATE:	TIME:
RELINQUISHED BY:			ATE:		_	IME:	REC	CEIVED BY:	(will		DATE	TIME: /SUD

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121752

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

WO#:

10121752

PAGE:

1 of 3

PO#:

PWS ID#

AF78425

PHONE: FAX:

(607) 562-4000

(607) 562-4001

01-023

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

art Analysis End Analyst*
1:30 12/15/10
art Analysis End Analyst *
56 12/14/10 HDP-CV
::30 12/14/10 LTW-CV
art Analysis End Analyst *
:00 12/13/10 IC-SA
00 12/14/10 NFM-SA
art Analysis End Analyst*
48 12/15/10 RHH-SA

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER	Come M. Davis	DATE:	12/16/2010

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121752

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Din

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121752

PAGE:

2 of 3

PO#:

AF78425

PHONE: FAX:

(607) 562-4000

(607) 562-4000

TEST REPORT

PWS ID#

01-023						
RECEIVED FOR LAB BY: RML	DATE:	12/09/2010 15:45			Pa	age 2 of 3
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE: TCLP Leachate of Inv. Cuttir	ıgs	Lab ID: 10121752-001G	Grab			
SAMPLED BY: SG	Sampl	e Time: 11/17/2010 8:00				
Tool	Booult	Method	SLOQ	Analysis Ctort	Analysis End	Anni
<u>Test</u> Strontium - TCLP extracted	<u>Result</u> < 0.050 mg/L	Mediod EPA 6010B	0.050	Analysis Start 11/18/10 13:15	11/18/10	Analyst * GSR-CV
				11/10/10 13.13	11/10/10	GOK-CV
Sample Note: Sample for TCLP extra	Cled Stronitum was rec	elved on 11/10/10 at 10.40	by SCF.			
SAMPLE: TCLP Leachate of Inv. Cutting	igs	Lab ID: 10121752-001H	Grab			
SAMPLED BY: SG	Sampl	e Time: 12/11/2010 12:45				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	5.10@16.9°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cuttings		Lab ID: 10121752-001I	Grab			
SAMPLED BY: SG	Sample	e Time: 12/13/2010 8:45				
			SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
• • •	•					

REMARKS:

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- B Analyte detected in the associated Method Blank
- Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER	Carrie M. Davis	DATE:	12/16/2010

PA ID #: 08-00380 NY ID# 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121752

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121752

PAGE:

3 of 3

PO#:

AF78425

TEST REPORT

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

01-023						
RECEIVED FOR LAB BY: RML	DAT	E: 12/09/2010 15:45			Pa	ige 3 of 3
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-\$A
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cuttin	gs	Lab ID: 10121752-001J	Grab			
SAMPLED BY: SG	Sar	mple Time: 12/10/2010 11:15	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	548 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cuttin	gs	Lab ID: 10121752-001L	Grab			
SAMPLED BY: SG	Sar	nple Time: 12/10/2010 11:15				
Tool	Popult	Method	SLOQ	Analysis Ctart	Analysis Fod	Analyst *
<u>Test</u> pH	Result 6.80@17.9°C	<u>werrod</u> SM4500H+B		Analysis Start 12/14/10 8:00	Analysis End 12/14/10	Analyst * SG-SA
pri Total Solids	.•	SM2540B	0.10	12/14/10 0:00	12/14/10	
Total Solids	720 mg/L	314120400	0.10	12/10/10 17.00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings		Lab ID: 10121752-001M	Grab			
SAMPLED BY: SG	Sar	nple Time: 12/10/2010 10:25	SLQQ.			
Test	Result	Method	SLAM.	Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed by	y Analytical Services,	Inc.				

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank
- Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER	Carrie M. Davis	DATE:	12/16/2010
	3000 111 <u>Critis</u>		

CHAIN OF CUSTODY	Benchmar	1OF1
REPORT TO: Talisman / UEG	East 2566 Pennsylvania W/O#: 10121752	
geowetlands@aol.com	Phone: ************************************	ECIAL DETECTION LIMITS
g	Fax: (5/0) 000-0/1/	,,,DeD: TYES / 1 NO
	REFRIGERATE SAMPLES AFTER COLLECTION ON DRINKING WATER SI SUPPLE RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	DW DRINKING WAFER SO SOIL NYDOH NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller TRANSPORT WW WASTE WATER OTHER	YES NO
PH# 607-731-0145	TO DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY / 火 / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE IN COOLER / S SULFURIC ACID AS ASCORBIC ACID /	
BILL TO: Talisman	WITH ICE N NITRIC ACID AC ACETIC ACID SO 3 SODIUM SULFITE NH, AMMONIUM CHLORIDE	
PO# A.F. 78425	This SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE	
	An incomplete chain of custody may delay the	Please fill out all
PROJECT DESCRIPTION 28H 01-023	processing of your sample(s).	applicable areas completely
SAME SIGNATURE / AFFILIATION		
CONTAINER SAMPLING POINT		Please fill out all applicable areas completely LAB USE ONLY
1 Inv Cuttings	t2A /2gY Se C 88-ル Ignitability, Reactive Sulfide & Cyanide	
2	PCBs, Total Solids	
3 A-Plants, Ign.	G Total Volatile Solids	
4 C- Rectivity	C Ammonia-Nitrogen	
5 D-TS, TVS	Water Leaching Procedure: COD,	
6 E-T. Sample	Y Y C Y Total Solids, Oil & Grease,	
7 F- TCLP BNA, Rosts.		
8 G-TCEP Herbs. Sr	K-Asim 946	
9 H-TCLP PH	1- Astra 75, H 36 HOUR TURNAROUND	, All Marie Control
10 I - TCCP Vols.	m-70x DAY TURNAROUND	
11 J- ASOM CODING		
LAB USE CALY	UENERENDO PROPERTIDA DE LA COMPANSA DEL COMPANSA DEL COMPANSA DE LA COMPANSA DE L	SC ARRIVATION/ICE-Y/N
RELINQUISHED BY	DATE: 91 10 TIME; 530 RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:		DATE: TIME:
RELINQUISHED BY:	DATE: TIME: RECEIVED BY: 00	175910 TIBIS
		Ad Graphics Printing 570-888-0585



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each a	or legib attache	oly printed in the spaces d sheet as Form 26R,	ately completed. All requi s provided. If additional sp reference the item numb ets needs to match the date	ace is necessary, ider er and identify the o	ntify Dat	DEP.U: le Received		/ al Notes
Genera	al Refer	rence 287.54						
Date P	repared		bruary 11, 2011					
			CLIENT (GENERATOR	ROF THE WASTE) I	NFORMA	TION		
	any Nar							
		ergy USA Inc.						
		y, Name of Parent Comp	pany				enerator	· ID#
Compa	an Ene	ergy Inc. ling Address Line 1	<u></u>	ompany Mailing Addre	es Line 2	N/A		
-	-	d Place	0.	ompany maning Addit	33 LIIIC Z			
		fress Last Line – City	State	Zip+4	Phone	.	E	Ext
Warre	-		PA	15086	(724)	814-5300		
•	-	ntact Last Name	First Name	Mi ·		Suffix		
Brown			Dina					
Munici				County Allegheny				
Warre	t Phon	e Ext	Contact Email Address	-megneny				
	314-53		dybrown@talismanusa.c	com				
			ny Mailing Address (noted a			ΠY	'es [No
If 'No'.	<u>desc</u> ril	oe location of waste ger	neration and storage. Drill o	cuttings are generated d	uring natural	gas drillin	g operati	ons at
the			ed at 504 Ballard Hill Road, O	Columbia Township, Bra	dford County	<u>, PA. Wa</u>	ste is sto	red in
CORPOR								
contain			County Bradfo	ord	St	ate	DΛ	
Munici		Columbia	County Bradfo			ate	PA	
Munici	pality	Columbia	SECTION B. WAST	ord E DESCRIPTION I				ma
	pality dual	Columbia Resid	,			of	Ti	me ame
Munici Resid Waste	pality dual	Columbia Resid Code D	SECTION B. WAST lual Waste Description	E DESCRIPTION Amount	Unit	of	Ti	
Munici Resid	pality dual	Columbia Resid	SECTION B. WAST ual Waste Description	Amount 1,034	Unit o	of ire	Ti Fra	
Resid Waste	pality dual Code	Columbia Resid Code I Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P	Amount 1,034 ROPERTIES	Unit of Measu	of ire	Ti Fra	ame
Resid Waste 810	dual Code pH Ra	Columbia Resid Code I Drill cuttings (oil and goinge 6.0	SECTION B. WAST lual Waste Description gas) 1. GENERAL P	Amount 1,034 ROPERTIES (based on analyses or	Unit of Measu	of ire	Ti Fra	ame
Resid Waste	dual Code pH Ra	Columbia Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 07 to 7.96 Liquid Waste (EPA Me	Amount 1,034 ROPERTIES (based on analyses or othod 9095)	Unit of Measu	of ire	Ti Fra	ame
Resid Waste 810	dual Code pH Ra	Columbia Resid Code I Drill cuttings (oil and goinge 6.0	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 07 to 7.96 Liquid Waste (EPA Me Solid (EPA Method 909	Amount 1,034 ROPERTIES (based on analyses or lithod 9095) 95)	Unit of Measu	of ire	Ti Fra	ame
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Resid Code I Drill cuttings (oil and goinge 6.0 al State	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 07 to 7.96 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera	Amount 1,034 ROPERTIES (based on analyses or othod 9095) 95) ture & pressure)	Unit of Measure cu yd lib	of ire gal	Ti Fra	e Time
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Resid Code I Drill cuttings (oil and goinge 6.0	SECTION B. WAST Jual Waste Description gas) 1. GENERAL P 7.96 Liquid Waste (EPA Method 90) Gas (ambient temperat Color Greyish Black	Amount 1,034 ROPERTIES (based on analyses or othod 9095) 95) ture & pressure) Odd	Unit of Measure cu yd lib conowledge)	of ire	Ti Fra	e Time
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Resid Code I Drill cuttings (oil and goinge 6.0 al State	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 7. 10 7.96 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 1,034 ROPERTIES (based on analyses or sthod 9095) 95) ture & pressure) Odd 1 Phases of Separation	Unit of Measure of Mea	of	Ti Fra	e Time
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Resid Code I Drill cuttings (oil and goinge 6.0 al State	SECTION B. WAST Jual Waste Description gas) 1. GENERAL P 7.96 Liquid Waste (EPA Method 90) Gas (ambient temperat Color Greyish Black	Amount 1,034 ROPERTIES (based on analyses or sthod 9095) 95) ture & pressure) Odd 1 Phases of Separation	Unit of Measure of Mea	of	Ti Fra	e Time
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Resid Code I Drill cuttings (oil and genge 6.0 cal State cal Appearance	SECTION B. WAST	Amount 1,034 ROPERTIES (based on analyses or behod 9095) 95) ture & pressure) Odd T Phases of Separation eparation. Soil and Resistance	Unit of Measure of Mea	of	Ti Fra On	e Time
Resid Waste 810	pality dual Code pH Ra Physic Physic	Columbia Resid Code I Drill cuttings (oil and genge 6.0 cal State cal Appearance sults of a detailed chemictions, is attached.	SECTION B. WAST	Amount 1,034 ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure) Odd 1 Phases of Separation eparation. Soil and Resident services as described in the services as described i	Unit of Measure of Mea	of	Ti Fra On	e Time
Resid Waste 810 c. a. b.	pality dual Code pH Ra Physic Physic The re instruc A deta	Columbia Resid Code I Drill cuttings (oil and genge 6.0 cal State cal Appearance sults of a detailed chemictions, is attached. iled description of the ventage of the second columbia.	SECTION B. WAST	Amount 1,034 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd T Phases of Separation eparation. Soil and Resident Separation and Resident Separation waste, as described in attached.	Unit of Measure of Mea	of	Ti Fra On	e Time No No
Resid Waste 810 c.	pality dual Code pH Ra Physic Physic The re instruc A deta The qu attach	Columbia Resid Code I Drill cuttings (oil and genge 6.0 cal State cal Appearance sults of a detailed chemictions, is attached, iled description of the validity assurance/quality ed.	SECTION B. WAST	Amount 1,034 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd 1 Phases of Separation eparation. Soil and Resident services attached. Sis ATTACHMENTS 2 waste, as described intached. Syed by the laboratory(Unit of Measure of Mea	of	Ti Fra On	e Time
Resid Waste 810 c. a. b.	pality dual Code pH Ra Physic Physic The re instruc A deta The qu attach The re	Columbia Resid Code I Drill cuttings (oil and genge 6.0 cal State cal Appearance sults of a detailed chemictions, is attached, iled description of the validity assurance/quality ed. sults of the hazardous	SECTION B. WAST	Amount 1,034 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd 1 Phases of Separation eparation. Soil and Resistant Resist	Unit of Measure of Mea	of re re re re re re re r	Ti Fra On	e Time No No

		PROCESS DESCRIPTION									
a.	A detailed description of the manufacturing and/or pollution control processes producing Yes No the waste, as specified in the instructions, is attached.										
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, Yes No as specified in the instructions, is attached.										
C.	If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.										
SECTION C. MANAGEMENT OF RESIDUAL WASTE 1. PROCESSING OR DISPOSAL FACILITY (IES)											
TI											
	ea below (ad.) will accommod				it necessary						
а.	Solid waste permit number(s 100361	for processing or dispos	al facility being utili	ized.							
b.	Facility Name	McKean County Landf	ill								
	Address Line 1	19 Ness Lane									
	Address Line 1										
	Address City State ZIP	Kane	PA	16735							
	Municipality	Sergeant Twp	County	McKean							
C.	Facility Contact Name	Mike Manderfeld									
	Title										
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com						
d.	Volume of waste shipped to p	cu yd 📗 gal	☐ lb 🛛 ton	(check one)							
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispos	al facility being utíli	zed.							
b.	Facility Name	Hyland Landfill									
	Address Line 1	6653 Herdman Road									
	Address Line 1		···								
	Address City State ZIP	Angelica	NY	14709							
	Municipality	Angelica	County	Allegany							
c.	Facility Contact Name	Larry Shilling									
	Title										
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com						
d.	Volume of waste shipped to p 293	rocessing or disposal fac cu yd gal	cility in the previous	•							
	in the second of the second	2. Benef	ICIAL USE								
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No					
	If "Yes", list the general perm	it number or approval nu	mber.								
b.	Volume of waste beneficially	used in the previous year	·								
	0 🗆	cu yd 🔲 gal	☐ lb ☐ ton	(check one)							

	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	CHMENTS					
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No			
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,								
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A			
	SECTION	ON C. MANAGEMI	ENT OF RESIDU	IAL WASTE					
		1. PROCESSING OR I	DISPOSAL FACILITY(IE	ES)		14.57			
The ar	ea below (ad.) will accommod				f necessary	•			
а.	Solid waste permit number(s 8-4630-00010	for processing or dispo	sal facility being util	ized.		·····			
b.	Facility Name	Hakes C&D Landfill							
	Address Line 1	4376 Manning Ridge	Road						
	Address Line 1								
	Address City State ZIP	Painted Post	NY	14870					
	Municipality	Erwin Twp	County	Steuben					
C.	Facility Contact Name	Joseph Boyles							
	Title								
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	lla.com				
d.	Volume of waste shipped to p	rocessing or disposal fa cu yd gal	acility in the previous						
a.	Solid waste permit number(s) 100945	for processing or dispo	sal facility being util	ized.					
b.	Facility Name	Cumberland County L	.andfill						
	Address Line 1	135 Vaughn Road							
	Address Line 1								
	Address City State ZIP	Newburg	PA	17240					
	Municipality	Newbug Boro	County	Cumberland					
c.	Facility Contact Name	Dusty Hilbert							
	Title	Compliance Manager							
	Phone	(717) 729-5261	Email Address	dhilbert@iswaste	.com				
d.	Volume of waste shipped to p	rocessing or disposal fa cu yd gal	cility in the previous						
			FICIAL USE	and the second	9.5	100			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No			
	If "Yes", list the general perm	it numbe <u>r or appro</u> val ու	ımber.						
b.	Volume of waste beneficially	·							
	0	cu yd gal	∐ lb ☐ ton	(check one)					

*****		PROCESS DESCRIPTION &			24.77					
a.	A detailed description of the the waste, as specified in the		ution control proce	esses producing	⊠ Yes	☐ No				
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, No as specified in the instructions, is attached.									
C.	If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.									
	SECTION	ON C. MANAGEMEN	NT OF RESIDU	JAL WASTE						
		1. Processing or Dis			•					
The ar	ea below (ad.) will accommod	late the identification of tw	o facilities. Attach	h additional sheets	if necessary	7.				
a.	Solid waste permit number(s) 101243	for processing or disposa	ıl facility being util	lized.						
b.	Facility Name	Chemung County Lands	fill							
	Address Line 1	1690 Lake Street								
	Address Line 1									
	Address City State ZIP	Elmira	NY	14903						
	Municipality	Elmira	County	Chemung						
C.	Facility Contact Name	Carla Canjar								
	Title	Environmental Manager								
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com					
d.	Volume of waste shipped to p	cuyd gal] lb 🛛 tor	n (check one)						
a.	Solid waste permit number(s)	cuyd gal] lb 🛛 tor	n (check one)						
	Solid waste permit number(s) Facility Name	cuyd gal] lb 🛛 tor	n (check one)						
a.	Solid waste permit number(s) Facility Name Address Line 1	cuyd gal] lb 🛛 tor	n (check one)						
a.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1	cuyd gal] lb 🛛 tor	n (check one)						
a.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP	cuyd gal	ib ⊠ tor	n (check one)						
a. b.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cuyd gal] lb 🛛 tor	n (check one)						
a.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	cuyd gal	ib ⊠ tor	n (check one)						
a. b.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	cuyd gal	lb ⊠ tor Il facility being util	n (check one)						
a. b.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	cu yd gal for processing or disposa	County Email Address	n (check one)						
a. b. c.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	cu yd gal countries gal gal countries gal gal countries gal gal countries gal countries gal gal countries gal gal countries gal gal	County Email Address Ity in the previous	ized.						
a. b. c.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	cu yd gal countries gal gal countries gal gal countries ga	County Email Address Ity in the previous	ized.						
a. b. c.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	rocessing or disposal facion yd gal	County Email Address lity in the previous b tor	ized.		No				
a. b. c. d.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	rocessing or disposal facion yd gal	County Email Address lity in the previous b tor	ized.		No				
a. b. c.	Solid waste permit number(s) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	rocessing or disposal facion yd gal	County Email Address lity in the previous b tor	s year. (check one)	☐ Yes	No No				

			SECTION D. CERTIFICATION
Repo obtain know	rt and all attached docu ning the information, I v ledge. I understand that	ments erify the s	nave personally examined and am familiar with the information submitted in this Annual and that based upon my inquiry of those individuals immediately responsible for that the submitted information is true, accurate and complete to the best of my ubmission of false information herein is made subject to the penalties of 18 Pa. C.S. on to authorities, which include fine and imprisonment.
Chec	k the following, if applicat	ole:	
	l certify the information and has not chan	•	ired in Section B-1, General Properties was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		<u>, </u>
	I certify the information and has not chan		ired in Section B-2, Chemical Analysis was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	l certify the information if for the year and h	-	ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Name	of Responsible Official		Title Environmental Specialist
Dina	Brown /		i
Signa	ture	- 0	$\frac{3000}{2000}$ Date $\frac{2/25/11}{2000}$

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10112530

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10112530

PAGE:

1 of 2

PO#:

AF76723

PWS ID#

PHONE:

(607) 731-0145

FAX:

(607) 562-4001

03-045

TEST REPORT

RECEIVED FOR LAB BY: SCP	DATE:	11/16/2010 16:40			Pa	age I of 2
SAMPLE: Air Cuttings		Lab ID: 10112530-001A	Grab			
SAMPLED BY: SG	Samp	le Time: 11/15/2010 18:39	SLOQ			
Test	Result	Method	3	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	39400 mg/Kg	EPA 9071	170	11/18/10 14:40	11/18/10	
Sample Note: Analysis performe	d by Microbac Laboratories,	Inc-Erie Division.				
SAMPLE: Air Cuttings	ARA	Lab ID: 10112530-001B	Grab			
SAMPLED BY: SG	Sampl	le Time: 11/15/2010 18:39				
T	Decult	Modbood	SLOQ	Analysis Start	Analysis End	Analyst *
<u>Test</u> Moisture	Result 34.8 %	<u>Method</u> Moisture Calc.	0.01	11/17/10 9:00	11/18/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.01	11/17/10 9:05	11/17/10	IC-SA
pH	7.96@24.3°C	EPA 9045C	0.1	11/17/10 16:52	11/17/10	SG-SA
SAMPLE: Air Cuttings		Lab ID: 10112530-001C	Grab	, , , , , , , , , , , , , , , , , , ,		
SAMPLED BY: SG	Sampl	e Time: 11/15/2010 18:39	<u>\$LOQ</u>			
Test	Result	Method	SLUG	Analysis Start	Analysis End	Analyst *
Sodium	294 mg/Kg-dry	EPA 6010B	132	11/18/10 9:00	11/18/10	GSR-CV
Chloride	1030 mg/Kg-dry	EPA 300.0	74.8	11/18/10 15:13	11/19/10	HDP-CV
Percent Moisture	34.8 %	SM2540G		11/17/10 9:00	11/18/10	IC-SA
SAMPLE: TCLP Leachate of Air Cu	ıttings	Lab ID: 10112530-001E	Grab			
SAMPLED BY: SG	Sampl	e Time: 11/17/2010 8:00	~. ~~			
Test	Result	Method	SLOQ	Analyşiş Ştart	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	11/17/10 9:00	11/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	11/18/10 13:15	11/18/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
	•					

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Cami	M. Davis	DA ⁻	TE:	11/19/2010
				-	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10112530

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10112530

PAGE:

2 of 2

PO#:

AF76723

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

03-045

RECEIVED FOR LAB BY: SCP

DATE: 11/16/2010 16:40

Page 2 of 2

ECEIVED FOR EAD B1. SCF	DAIL.	11/10/2010 10:40			1	age 2 01 2
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/18/10 13:15	11/18/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/18/10 13:15	11/18/10	GSR-CV
Zinc - TCLP extracted	2.15 mg/L	EPA 6010B	0.200	11/18/10 13:15	11/18/10	GSR-CV

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MANAGER	Cani	M. Davis	DATE:	11/19/201	0

CHAIN OF CUSTODY									PAGE1_OF	1
REPORT TO: Talisman / UEG										
geowetlands@aol.com	1	•					W/O#: 10112530		ARE SPECIAL DETECTION L	IMITS
goovenando@don.oom	-								NEEDED: YES / ✓ NO	
		RIGER. ER COI			S	_	RESULTS ARE BEING USED		IF YES, PLEASE ATTACH	
	^' '	EN OOI		ION		DV GV	INTOOL INTOEC	PADEP	IS A QC PACKAGE NEI	EDED?
CONTACT Steve Gridley		TRANS	דמהמ			/ sv w	V SURFACE WATER HZ HAZARDOUS LANDFILL		YES NO	
PH# 607-731-0145	-	T(n	DELONIZED WATER DI DISTILLED WATER DERCONNI CTUER		IF YES, PLEASE ATTACH REQ	UIREMENTS
FAX#	۱ [ABOR		•			/ H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID		/ /\$/	
BILL TO: Talisman	7	IN COC			/ ,	/ 👸	/ S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID	/	/ / 🐉 /	
				/		8/	SO ₃ SODIUM SULFITE NH ₄ AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE	- / ¿	\$ \ \ \ \ \ \ \ \ \ \ 	
PO# AF 78489			/_&	, /		ه / ۶	- NONE Hg MERCURIC CHLORIDE		5/8/ Diagram 511 a.	
PROJECT DESCRIPTION 03-045		TIME SAMPLED	SAME, SAMPLING	SAME		PRE PHITMS COMPOSITE	An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	PRESENTED ON PRESENT	Please fill of applicable a complete	
SAMPLER SIGNATURE / AFFILIATION	┨ /		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	THE PERSON NAMED IN	£/	84/	processing or your sample(s).		complete	ly
CONTAINER SAMPLING POINT	- / ;						ANALYSIS TO BE PERFORMED		//	
							(PER CONTAINER)		/ LAB USE ONLY	
1 Air Cuttings	1/15	1839	50	C	98-	N	TPH			
2							pH, Chlorides, Sodium			. 7 %
3							TCLP 8 RCRA Metals + Cu, Ni, Zn			
4 A - TPH							Free Liquids / % Moisture			
5 B- pH free liquid, 1- mios	tire.									
6 C- Anions, metals							Perform BTEX ONLY IF the TPH			
7 D- Total Sample							exceeds 100,000 mg/Kg			
8 E- TCLP metals.						1				
9							7.2 HOUR TURNAROUND			
10	+	†					DAY TURNAROUND			
11	-	+	<u> </u>		 	_				
L 1										
LAB USE ONLY DEBUYAREDES							TEMPERATURE UROMREGERY	3	C ARRIVAL ON I	SE YIN
RELINION SHED BY:		CARCE TO T	DATE:		431276	ΓIME: .	RECEIVED BY:		TDATE: TIME	
NEW/		/	11,	611	0		6 40 RECEIVED BY:		I I	-
RELINQUISHED BY:		10	ATE:		l i	IMF:	RECEIVED BY:		DATE: TIME	<u>.</u> , ————

RECEIVED BY:

DATE: | 1/0 / 1/0 TIME: 1/0 : 40
Ad Graphics Printing 570-888-0885

DATE: /

TIME:

RELINQUISHED BY:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120827

Phone: (570) 888-0169 Fax: (570) 888-0717

TEST REPORT

SEND DATA TO:

COMPANY:

Steve Gridley NAME:

Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10120827

PAGE:

PWS ID#

0.500 12/08/10 12:15

0.100 12/08/10 12:15

0.100 12/08/10 12:15

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12/08/10

GSR-CV

GSR-CV

GSR-CV

GSR-CV

GSR-CV

GSR-CV

GSR-CV

1 of 1

PO#:

AF78489

PHONE: FAX:

(607) 731-0145 (607) 562-4001

Chromium - TCLP extracted

Copper - TCLP extracted

Lead - TCLP extracted

Nickel - TCLP extracted

Silver - TCLP extracted

Zinc - TCLP extracted

Selenium - TCLP extracted

03-045	ľ					
RECEIVED FOR LAB BY: CMS	DAT	E: 12/06/2010 15:40			Pa	age l of l
SAMPLE: Inv Cuttings + Omni		Lab ID: 10120827-001A	Compo	site		
SAMPLED BY: SG	Sar	nple Time: 12/06/2010 11:22	81.00			
Test	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	22800 mg/Kg	EPA 9071		12/08/10 14:20	12/08/10	•
Sample Note: Analysis performed	by Microbac Laboratori	es, Inc-Erie Division				
SAMPLE: Inv Cuttings + Omni		Lab ID: 10120827-001B	Compo	site		
SAMPLED BY: SG	Sar	nple Time: 12/06/2010 11:22	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Moisture	33.1 %	Moisture Calc.	0.01	12/06/10 17:30	12/07/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	12/06/10 17:00	12/06/10	IC-SA
рН	6.07@21.7°C	EPA 9045C		12/07/10 14:20	12/07/10	MED-SA
SAMPLE: TCLP Leachate of Inv Cut	tings + Omni	Lab ID: 10120827-001E	Compo	site		
SAMPLED BY: SG	Sar	nple Time: 12/07/2010 8:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/07/10 10:15	12/09/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/08/10 12:15	12/08/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV

EPA 6010B

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< 0.500 mg/L

< 0.100 mg/L

< 0.500 mg/L

< 0.100 mg/L

< 0.500 mg/L

< 0.100 mg/L

0.250 mg/L

MANAGER	Carrie M. Davis	DATE:	12/10/2010
---------	-----------------	-------	------------

CHAIN OF CUSTODY								PAGE 1 OF	_1
REPORT TO: Talisman / UEG								ARE SPECIAL DETECTION LIMI	rre
geowetlands@aol.com							W/O#: 10120827	NEEDED: YES / NO	15
	REF	RIGEF	RATE S	AMPLI	ES		RESULTS ARE BEING USED FOR	 -	
			LLECT			/DV		DEP IS A QC PACKAGE NEED!	·CD3
CONTACT Stove Cridley	-					GV SV	GROUND WATER SO SOIL		EU?
Steve Gridley	<u> </u>		SPORT	•	,	/ w	WASTE WATER OTHER	YES Z NO	
PH# 607-731-0145 FAX#	┦,		'O RATORI	٧		DE /-4	DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER / / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	IF YES, PLEASE ATTACH REQUIF	REMENTS
		IN CO	OLER			18	S SULFURIC ACID AS ASCORBIC ACID		
BILL TO: Talisman	-	WITH	1 ICE	1	/ /	/ § /	N NITRIC ACID AC ACETIC ACID SO ₃ SODIUM SULFITE NH. AMMONIUM CHLORIDE	\\ \tag{\frac{\pi}{\pi}}	
PO# AF 78 48 9	+	$\overline{}$	7	$\overline{}$	/ .	\$/ \$	/ Thio SODIUM THIOSULFATE ZN ZINC ACETATE - NONE Hg MERCURIC CHLORIDE /		
PROJECT DESCRIPTION 03-0 45	-			'/*	/ .8		An incomplete chain of custody may delay the	Please fill out a	
SAMPLER SIGNATURE / AFEILIATION	1 /	That SAMPLED	/ ž	SAME MATRIX	(E)		An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	applicable area completely	IS
SAMPLER SIGNATURE / AFFILIATION UIE		\$ / j	\$ / {	<u>#</u> /	<u>g</u> y/.	g_{ij}^{ij}/g_{ij}^{ij}	\$/		
CONTAINER SAMPLING POINT	18		SALLS SALIPLING	\\ \dis	/ 3	PRECE MITALS	SO 3 SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out a applicable area completely LAB USE ONLY	
1 Inv Cuttings + Omni	12/6	11.22	50	<	50	10	TPH		
2							pH		
3							TCLP 8 RCRA Metals + Cu, Ni, Zn		
4		-					Free Liquids / % Moisture		
5 A. TPH	1		†		1				
	mai	1-0	P				Perform BTEX ONLY IF the TPH		
6 B- pH, Free liquid, ·1. 7 C-Anions, metals 8 D- Total Sample	110.						exceeds 100,000 mg/Kg		
8 D- Total Sangle	1								
9 E- TCLP metals.		 	1		1	1	72 HOUR TURNAROUND AW		
10	1	<u> </u>	 		†		DAY TURNAROUND		
111	1	 	 		1	1			
LAB LSE CALY DELLIVERED BY							TEMPERATURE UPONIFECEIPTE E	CC_/ARRIVALIONIQE	<u>Y</u> N
REUMOUSHED BY:]	DATE:			TIME:	RECEIVED BY:	DATE: TIME:	***
DEI MOLISCHED DV			プ <u>之</u> / DATE:	611		/] TIME:	RECEIVED BY:	DATE: TIME:	
RELINQUISHED BY.)A(E)	1		. HVIC.	\sim \sim \sim \sim	DATE:	
RELINQUISHED BY:		1	DATE:		T	TIME:	RECEIVED BY	DATE: TIME:	52 /A

PA ID #: 08-00380 NY ID# 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121740

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121740

PAGE:

1 of 3

PO#:

AF78489

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

TEST REPORT

PWS ID#

03-045

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

End Analyst
0 End Analyst
0 End Analyst
End Analyst
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REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank В
- Value above quantitation range

MANAGER	Carri	m Davisi	DATE:	12/16/2010
		7 V (1		

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121740

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121740

PAGE:

PWS ID#

2 of 3

PO#:

AF78489

TEST REPORT

PHONE: FAX:

(607) 562-4000 (607) 562-4001

03-045						
RECEIVED FOR LAB BY: RML	DATE	: 12/09/2010 15:45			Pa	ige 2 of 3
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-\$A
Pentachiorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE: TCLP Leachate of Inv. Cuttin	gs	Lab ID: 10121740-001G	Grab			
SAMPLED BY: SG	_	ple Time: 11/17/2010 8:00				
Toot	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
<u>Test</u> Strontlum - TCLP extracted	7.33 mg/L	E EPA 6010B	0.050	11/18/10 13:15	11/18/10	GSR-CV
Sample Note: Sample for TCLP extraction	-			17,70,10 10.10	11710/10	0011-01
		Lab ID: 10121740-001H	Grab			·
SAMPLE: TCLP Leachate of Inv. Cuttin SAMPLED BY: SG	_	ple Time: 12/11/2010 12:45	Glab			
SAMPLED BT. SG	Sam	pie filile. 12/11/2010 12.45	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
рН	6.12@16.7°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cuttings	į	Lab ID: 10121740-001	Grab			
SAMPLED BY: SG	Sam	ple Time: 12/13/2010 8:45			-	
T4	Decult	المعطامة المعالمة	SLOQ	Ameliala Ctart	Analusia End	Al
<u>Test</u> Benzene	Result < 0.0250 mg/L	Method EPA 8260B	0.0250	Analysis Start 12/13/10 8:11	Analysis End 12/13/10	Analyst * CTM-SA
- • ··· -	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	•	•	0.0250	12/13/10 8:11	12/13/10	• •
Chlorobenzene	< 0.0250 mg/L	EPA 8260B				CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

REMARKS:

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- B Analyte detected in the associated Method Blank
- Value above quantitation range

	/ 1	~		
MANAGER	Cami	M. Davis	DATE:	12/16/2010

PA ID #: 08-00380 NY ID# 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121740

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121740

PAGE:

3 of 3

PO#:

PWS ID#

AF78489

PHONE: FAX:

(607) 562-4000 (607) 562-4001 **TEST REPORT**

03-045						
RECEIVED FOR LAB BY: RML	DATE	: 12/09/2010 15:45			Pa	ige 3 of 3
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cuttin	gs	Lab ID: 10121740-001J	Grab			
SAMPLED BY: SG	_	ole Time: 12/12/2010 13:10	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u> </u>	Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	222 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cuttin	gs	Lab ID: 10121740-001L	Grab			
SAMPLED BY: SG	Samı	ole Time: 12/12/2010 13:10				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	7.46@16.7°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1210 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings	•	Lab ID: 10121740-001M	Grab			
SAMPLED BY: SG	Same	ole Time: 12/12/2010 13:10	SLOQ	•		•
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed by	/ Analytićal Services, In	c.				

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- Value above quantitation range

	//	· ·		
MANAGER	Carri	M. Davis	DATE:	12/16/2010

CHAIN OF CUSTODY	Benchm:	E <u>1</u> OF 1
REPORT TO: Talisman / UEG	Εε 2566 Pennsylvan W/Ω#・10121740	
geowetlands@aol.com	2566 Pennsylvan W/O#: 10121740	SPECIAL DETECTION LIMITS
gcowcuarius@aor.com		INELEDED; YES / 7NO
	REFRIGERATE SAMPLES RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	AFTER COLLECTION DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	GW GROUND WATER SO SOIL SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller	YES Z NO
PH# 607-731-0145	TRANSPORT / WW WASTE WATER OTHER	IFYES PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	/ /5/
BILL TO: Talisman	IN COOLER / S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID AC ACETIC ACID	
	WITH ICE SO 3 SODIUM SULFITE NH, AMMONIUM CHLORIDE	:/ 8 /
PO# A F78489	- NONE Hg MERCURIC CHLORIDE	
PROJECT DESCRIPTION 63 - 0 45	An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely LAB USE ONLY
SAMPLER SIGNATURE / AFFILIATION	processing of your sample(s).	completely
	An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	/
CONTAINER SAMPLING POINT	LABORATORY IN COOLER WITH ICE H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	LAB USE ONLY
1 Inv Cuttings	12/8 2000 C B N Ignitability, Reactive Sulfide & Cyanide	
2	\ \ \ \ C \ \ \ \ \ PCBs, Total Solids	
3 A- Plants, Ign.	G Total Volatile Solids	
4 E - Rechistry	C Ammonia-Nitrogen	
5 b- TS, TUE	C / Water Leaching Procedure: COD,	
6 E-T. Sple	V V C V V Total Solids, Oil & Grease,	
7 F-TEEP BNA, Ports.		
8 G-TCLP Auto Sr		
9 H-TCLP +H	7-137 046 36 HOUR TURNAROUND	
10 I - TCIP Yols.	L-Asm-TS, OH DAY TURNAROUND	
11 J- ASTM COD, WHY	m-Tax 1	
LAB USE ONLY		
PANAGOR	TICMESTANDE MEDITALES CONTRACTOR OF THE CONTRACT	eg arrivationige van
RELINQUISTING BY:	DATE: 9, 10 TIME: 1530 RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:	DATE: TIME: RECEIVED BY	DATE: TIME:
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RELINQUISHED BY;	DATE: , TIME: RECEIVEDY: 00	PB9/10 145/5
		Ad Graphics Printing 570-888-0685



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

This for typed of each a prepare	tify Date Receive	USE ONLY ed & General Notes				
Genera	ıl Refe	rence 287.54				
Date Pr	repare		ebruary 11, 2011			
			CLIENT (GENERATOR	R OF THE WASTE) II	NEORMATION	
Compa		me ergy USA Inc.				
		y, Name of Parent Com	pany		EPA (Generator ID#
Talism	an Ene	ergy Inc.			N/A	
		iling Address Line 1	С	ompany Mailing Addre	ss Line 2	
		d Place dress Last Line – City	State	Zip+4	Phone	Ext
Warrer	-		PA	15086	(724) 814-530	
	•	ntact Last Name	First Name	MI	Suffix	(
Brown Munici			<u>Dina</u>	County		
Warrer				Allegheny		
Contac	t Phon		Contact Email Address			
(724) 8			dybrown@talismanusa.c			
			iny Mailing Address (noted a neration and storage. Drill o			Yes No
the			d at 1349 Buckwheat Road, G			
contain						
					6 / /	
Munici		Granville	County Bradfo		State	PA
Munici	pality	Granville	SECTION B. WAST	ord EDESCRIPTION		
	pality Jual	Granville Resid	SECTION B. WAST	E DESCRIPTION	State Unit of Measure	PA Time Frame
Municip Resid Waste	pality Jual	Granville Resid	SECTION B. WAST dual Waste Description	E DESCRIPTION Amount	Unit of Measure □ cu yd □ gal	Time Frame
Resid Waste	pality Jual	Granville Resid	SECTION B. WAST dual Waste Description gas)	Amount 1,949	Unit of Measure	Time
Resid Waste 810	pality dual Code	Granville Resid Code Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P	Amount 1,949 ROPERTIES	Unit of Measure □ cu yd □ gal □ lb ☑ ton	Time Frame
Resid Waste	pality dual Code pH Ra	Granville Resid Code Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P	Amount 1,949 ROPERTIES (based on analyses or k	Unit of Measure □ cu yd □ gal □ lb ☑ ton	Time Frame
Resid Waste 810	pality dual Code pH Ra	Granville Resid Code Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P	Amount 1,949 ROPERTIES (based on analyses or kethod 9095)	Unit of Measure □ cu yd □ gal □ lb ☑ ton	Time Frame
Resid Waste 810	pality dual Code pH Ra Physic	Granville Resid Code Drill cuttings (oil and inge 8. cal State	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera	Amount 1,949 PROPERTIES (based on analyses or kethod 9095) 95) ture & pressure)	Unit of Measure □ cu yd □ gal □ lb □ ton nowledge)	Time Frame
Resid Waste 810	pality dual Code pH Ra Physic	Granville Resid Code Drill cuttings (oil and	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 1,949 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Oddo	Unit of Measure □ cu yd □ gal □ lb □ ton nowledge)	Time Frame One Time
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Granville Resid Code Drill cuttings (oil and inge 8. cal State	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 1,949 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd d Phases of Separation	Unit of Measure cu yd gal box ton chowledge) Earthy/Slight F	Time Frame One Time
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Granville Resid Code Drill cuttings (oil and inge 8. cal State	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 1,949 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd d Phases of Separation	Unit of Measure cu yd gal box ton chowledge) Earthy/Slight F	Time Frame One Time
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Granville Resid Code Drill cuttings (oil and inge 8. cal State	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 1,949 PROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro	Unit of Measure cu yd gal box ton chowledge) Earthy/Slight F	Time Frame One Time
Resid Waste 810 a. b.	pality dual Code pH Ra Physic Physic	Granville Resid Code Drill cuttings (oil and Inge 8. cal State cal Appearance	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 1,949 ROPERTIES (based on analyses or keythod 9095) 95) ture & pressure) Odd Thases of Separation eparation. Soil and Ro	Unit of Measure cu yd gal box ton nowledge) Pr Earthy/Slight Fone ck Fragments	Time Frame One Time
Residuate 810 a. b.	pality dual Code pH Ra Physic Physic The re instrue A deta	Granville Resid Code Drill cuttings (oil and Inge 8. cal State cal Appearance esults of a detailed cheretions, is attached. ailed description of the	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS mical characterization of the waste sampling method is a	Amount 1,949 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro esis Attachments waste, as described in	Unit of Measure Cuyd Gal Db Ston Inowledge) Pr Earthy/Slight F One Ock Fragments	Time Frame One Time Petroleum Yes No Yes No
Resic Waste 810 b. c.	pality dual Code pH Ra Physic Physic The re instruc A deta The qu attach	Granville Resid Code Drill cuttings (oil and Inge 8. cal State cal Appearance sults of a detailed cheretions, is attached. ailed description of the cuality assurance/quality and code and code are code.	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS mical characterization of the waste sampling method is a y control procedures employ	Amount 1,949 PROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro ESS ATTACHMENTS E waste, as described in attached. yed by the laboratory(in	Unit of Measure Cuyd Gal Db Ston Inowledge) Pr Earthy/Slight F One Ock Fragments	Time Frame One Time Petroleum Yes No
Residuate 810 a. b.	pality dual Code PH Ra Physic Physic The re instruc A deta The qu attach The re	Granville Resid Code Drill cuttings (oil and Inge 8. cal State cal Appearance sults of a detailed cheretions, is attached. ailed description of the cuality assurance/quality assurance/quality assurance.	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 89 to 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS mical characterization of the waste sampling method is a	Amount 1,949 PROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro Esis Attachments waste, as described in attached. yed by the laboratory(in	Unit of Measure Cuyd Gal Dib Ston Inowledge) Part Earthy/Slight For One Ock Fragments In the Ses) is	Time Frame One Time Petroleum Yes No No

12.7		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS	
a.		he manufacturing and/or pollution control processes producing Yes No the instructions, is attached.	
b.	A schematic of the manufa as specified in the instruct	acturing and/or pollution control processes producing the waste, Yes No tions, is attached.	
C.		ion submitted are confidential, the substantiation for Yes No N/A described in the instructions, is attached.	
	SEC'	TION C. MANAGEMENT OF RESIDUAL WASTE	
(1) P. (1)		1. PROCESSING OR DISPOSAL FACILITY(IES)	PER SE
The ar	ea below (ad.) will accomn	nodate the identification of two facilities. Attach additional sheets if necessary.	
a.	8-4630-00010	r(s) for processing or disposal facility being utilized.	
b.	Facility Name	Hakes C&D Landfill	
	Address Line 1	4376 Manning Ridge Road	
	Address Line 1		
	Address City State ZIP	Painted Post NY 14870	
	Municipality	Erwin Twp County Steuben	
c.	Facility Contact Name	Joseph Boyles	
	Title		
	Phone	(607) 937-6044	
d.	1,087	to processing or disposal facility in the previous year. Cu yd gal lb ton (check one)	
а.	Solid waste permit number 9-0232-00003	r(s) for processing or disposal facility being utilized.	
b	Facility Name	Hyland Landfill	
	Address Line 1	6653 Herdman Road	
	Address Line 1		
	Address City State ZIP	Angelica NY 14709	
	Municipality	Angelica County Allegany	
c.	Facility Contact Name	Larry Shilling	
	Title		
	Phone	(585) 466-7271 Email Address larry.shilling@casella.com	
d.	Volume of waste shipped t	to processing or disposal facility in the previous year.	
	620	cu yd gal lb ton (check one)	
		,2. Beneficial Use	
а.	Has the waste been approv		
	If "Yes", list the general pe	ermit number or approval number.	
b.		lly used in the previous year.	_
	0	cu yd gal lb ton (check one)	
L			

a.		. PROCESS DESCRIPTION			and the second				
".	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No			
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, Yes No as specified in the instructions, is attached.								
c.	If portions of the information a confidentiality claim, as de			on for Yes	☐ No	⊠ N/A			
	SECT	ON C. MANAGEMI	ENT OF RESIDU	JAL WASTE					
et er er er		1. PROCESSING OR I	DISPOSAL FACILITY(II	ES)					
The ar	ea below (ad.) will accommo				if necessary				
a.	Solid waste permit number(s 8-0728-00004	s) for processing or dispo	sal facility being uti	lized.					
b.	Facility Name	Chemung County Lar	ndfill						
	Address Line 1	1690 Lake Street							
	Address Line 1								
	Address City State ZIP	Elmira	NY	14903					
	Municipality	Elmira	County	Chemung					
C.	Facility Contact Name	Carla Canjar							
	Title	Environmental Manag							
	Dhana	/EOE\ 707 EO 44							
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com				
d.	Volume of waste shipped to 242	processing or disposal fa	acility in the previous	s year. n (check one)					
d. a.	Volume of waste shipped to 242 Solid waste permit number(s	processing or disposal fa	acility in the previous	s year. n (check one)					
	Volume of waste shipped to 242 Solid waste permit number(s	processing or disposal fa	acility in the previous	s year. n (check one)					
а.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1	processing or disposal fa	acility in the previous	s year. n (check one)					
а.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1	processing or disposal fa	acility in the previous	s year. n (check one)					
а.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP	processing or disposal fa	acility in the previous ib ib tor sal facility being util	s year. n (check one)					
a. b.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	processing or disposal fa	acility in the previous	s year. n (check one)					
а.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	processing or disposal fa	acility in the previous ib ib tor sal facility being util	s year. n (check one)					
a. b.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	processing or disposal fa	cility in the previous b tor sal facility being util County	s year. n (check one)					
a. b.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	processing or disposal facuyd gal	cility in the previous b S tor sal facility being util County Email Address	s year. n (check one) lized.					
b. c.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	processing or disposal facuyd gal) for processing or dispo	cility in the previous to b county County Email Address cility in the previous	s year. (check one) lized.					
а. b.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	processing or disposal facuyd gal) for processing or dispo	county Email Address cility in the previous County	s year. n (check one) lized.					
b. c.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	processing or disposal facuyd gal) for processing or dispo	cility in the previous to b county County Email Address cility in the previous	s year. n (check one) lized.		No			
a. b. c.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to Has the waste been approved	processing or disposal facuyd gal) for processing or disposal facuyd gal processing or disposal facuyd gal 2. BENE	County Email Address cility in the previous County Email Address cility in the previous b ficial Use	s year. n (check one) lized.		⊠ No			
a. b. c.	Volume of waste shipped to 242 Solid waste permit number(s Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	processing or disposal facuyd gal) for processing or disposal facuyd gal processing or disposal facuyd gal 2. BENE	County Email Address cility in the previous County Email Address cility in the previous b ficial Use	s year. in (check one) s year. in (check one)	Yes	No			

SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the Information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year _____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title **Environmental Specialist** Signature

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074058

Phone: (570) 888-0169 Fax: (570) 888-0717

TEST REPORT

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PAGE:

1 of 1

PO#:

WO#:

AF77406

10074058

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

RECEIVED FOR LAB BY: DLM2	DATE	: 07/26/2010 15:15			Pa	age 1 of 1
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Samı	Lab ID: 10074058-001A ole Time: 07/26/2010 11:45	Compo	site		
<u>Test</u> Total Petroleum Hydrocarbons Sample Note: Analysis performed b	Result 72400 mg/Kg v Microbac-Erie	Method EPA 9071	SLOQ	Analysis Start 07/27/10 12:00	<u>Analysis End</u> 07/27/10	Analyst *
SAMPLE: Inv. Cuttings	,	Lab ID: 10074058-001B	Compo	eita		
SAMPLED BY: SG	Samp	ole Time: 07/26/2010 11:45	SLOQ	Site		
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	21.7 %	Moisture Calc.	0.01	07/26/10 10:30	07/27/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/26/10 16:15	07/26/10	IC-SA
рН	9.01@21.0°C	EPA 9045C		07/27/10 12:20	07/27/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10074058-001D	Grab			
SAMPLED BY: SG	Samp	ole Time: 07/26/2010 11:45	SLOQ			
<u>Test</u>	Result	<u>Method</u>	SLUQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0010 mg/L	EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	s EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Zinc - TCLP extracted	8.30 mg/L	EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

MANAGER	Carrie M. Davis	DATE:	7/30/2010
_			

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081723

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

WO#:

10081723

PAGE:

PWS ID#

1 of 2

PO#:

AF77406

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

RECEIVED FOR LAB BY: DLM2 DATE: 08/10/2010 15:33 Page 1 of 2

RECEIVED FOR LAB BY: DLIVIZ	DATE:	06/10/2010 15:33			Pa	age 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG		Lab ID: 10081723-001A e Time: 08/09/2010 15:50	Grab			
SAMPLED BY. 3G	Sample	F Time. 00/09/2010 15:50	SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	1230 mg/Kg	EPA 9071		08/12/10 11:10	08/12/10	
Sample Note: Analysis performed	l by Microbac-Erie					
SAMPLE: Air Cuttings	1	_ab ID: 10081723-001B	Grab	Annual Control of the		
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50				
T (D #	M. (1)	SLOQ	A 1 1 0/ /		
<u>Test</u> Moisture	Result	<u>Method</u>	0.04	Analysis Start	Analysis End	
	18.2 %	Moisture Calc.	0.01	08/12/10 8:45	08/13/10	MED-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	08/12/10 15:15	08/12/10	RHN-SA
pH	8.89@21.8°C	EPA 9045C		08/12/10 15:42	08/12/10	MED-SA
SAMPLE: Air Cuttings	l	_ab ID: 10081723-001C	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50				
	-		<u>SLOQ</u>			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Sodium	941 mg/Kg-dry	EPA 6010B	108	08/13/10 9:40	08/13/10	RMD-CV
Chloride	370 mg/Kg-dry	EPA 300.0	61.1	08/11/10 14:31	08/12/10	HDP-CV
Percent Moisture	18.2 %	SM2540G		08/12/10 8:45	08/13/10	MED-SA
SAMPLE: TCLP Leachate of Air Cu	ttings L	ab ID: 10081723-001E	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50				
Test	Dogult	Mathad	SLOQ	Analysis Start	Analysis End	A m. a.b. c. 6 *
Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	<u>Method</u> EPA 7470A	0.0008	Analysis Start 08/12/10 8:30	Analysis End 08/13/10	Analyst *
Arsenic - TCLP extracted	· ·		0.500			KW-CV
	< 0.500 mg/L	EPA 6010B		08/13/10 7:20		RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/13/10 7:20		RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20		RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20		RMD-CV
Copper - TCLP extracted	0.112 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
DEMADIZO.						

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

	/ /	7		
MANAGER	ani	M. Davis	DATE	:: 8/13/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081723

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081723

PAGE:

2 of 2

PO#:

AF77406

PWS ID#

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

RECEIVED FOR LAB BY: DLM2	DATE:	08/10/2010 15:33			P	age 2 of 2
Nickel - TCLP extracted	0.230 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Zinc - TCLP extracted	0.735 mg/L	EPA 6010B	0.200	08/13/10 7:20	08/13/10	RMD-CV

TEST REPORT

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA

MANAGER Carrie M. Davis DATE:	DATE: 8/13/2010	
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COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each a	or legit attache	oly printed in the spaces d sheet as Form 26R,	ately completed. All requisions provided. If additional specified in the second section in the date in the date.	ace is necessary, iden er and identify the o	ntify Da	DEP (ate Receive		ONLY eneral Notes
Genera	al Refe	rence 287.54						
Date P	repare	d/Revised Fe	bruary 11, 2011					
		SECTION A.	CLIENT (GENERATOR	R OF THE WASTE) I	NEORMA	NOITA		
	any Nar							
		ergy USA Inc. y, Name of Parent Comp	nany			FΡΔ	Gener	ator ID#
	-	ergy inc.	outly .			N/A	J C.11C1	u(0) 1D#
	•	ling Address Line 1	С	ompany Mailing Addre	ess Line 2			
	nnwood		Ctata	7:4	Db			F:/
Warre		dress Last Line – City	State PA	Zip+4 15086	Phon (724)	е) 814-530	ın	Ext
		ntact Last Name	First Name	MI		Suffix		
Brown			Dina					
Munici Warre				County Allegheny				
	ct Phon	e Ext	Contact Email Address	Allegrieny				
(724)8	814-53	21	dybrown@talismanusa.c	com				
			ny Mailing Address (noted				Yes	⊠ No
If 'No',			neration and storage. <u>Drill o</u> at 1349 Buckwheat Road, G					
	ers on s		at 1549 Duckwileat Road, O	ranville Township, Drau	iora County	, r A. Was	NC 15 3	Stored III
Munici	pality	Granville	County Bradfo			tate	PA	ances constitues a constitue of the second
				EDECODIDATION				
			SECTION B. WAST	E DESCRIE HOW	THE REAL PROPERTY OF THE PROPE		90/45 EXC 510	
Resid			ual Waste		Unit			Time
Waste		Code D	ual Waste Description	Amount	THE REAL PROPERTY OF THE PROPE			Time Frame
Waste 810	Code		ual Waste Description gas)	Amount 1,949	Unit Meas	ure		
Waste 810	Code	Code Double Drill cuttings (oil and o	ual Waste Description gas) 1. General: P	Amount 1,949 ROPERTIES	Unit Meas Cu yd	ure gal		Frame
Waste 810 a.	Code pH Ra	Code D Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P 39 to 9.01	Amount 1,949 ROPERTIES (based on analyses or	Unit Meas Cu yd	ure gal		Frame
Waste 810	Code pH Ra	Code Double Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P 59 to 9.01 Liquid Waste (EPA Me	Amount 1,949 ROPERTIES (based on analyses or thod 9095)	Unit Meas Cu yd	ure gal		Frame
Waste 810 a.	Code pH Ra	Code D Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P 39 to 9.01	Amount 1,949 ROPERTIES (based on analyses or thod 9095) 95)	Unit Meas Cu yd	ure gal		Frame
Waste 810 a.	pH Ra Physic	Code D Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P 39 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 1,949 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Ode	Unit Meas cu yd lb cnowledge)	ure gal	Petrole	One Time
Waste 810 a. b.	pH Ra Physic	Code D Drill cuttings (oil and g nge 8.8 cal State	ual Waste Description Gas) 1. GENERAL P 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 1,949 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd I Phases of Separation	Unit Meas Cu yd Ib Cnowledge) Cr Earth Cno One	ure ☐ gal ☑ ton	Petrole	One Time
Waste 810 a. b.	pH Ra Physic	Code D Drill cuttings (oil and g nge 8.8 cal State	ual Waste Description gas) 1. GENERAL P 39 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 1,949 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd I Phases of Separation	Unit Meas Cu yd Ib Cnowledge) Cr Earth Cno One	ure ☐ gal ☑ ton	Petrole	One Time
Waste 810 a. b.	pH Ra Physic	Code D Drill cuttings (oil and g nge 8.8 cal State	ual Waste Description Gas) 1. GENERAL P 9.01 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 1,949 ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure) Ode Phases of Separation eparation. Soil and Re	Unit Meas Cu yd Ib Cnowledge) Cr Earth Cno One	ure ☐ gal ☑ ton	Petrole	One Time
Waste 810 a. b.	Physic	Code D Drill cuttings (oil and g nge 8.8 cal State cal Appearance	ual Waste Description gas) 1. GENERAL P 39 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 1,949 ROPERTIES (based on analyses or other or other of section of s	Unit Meas cu yd lb cnowledge) pr Earth One ock Fragm	ure	Petrole	One Time
Waste 810 a. b.	Physic The reinstruc A deta	Drill cuttings (oil and one of the color of	ual Waste Description J. GENERAL P 99 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS stical characterization of the	Amount 1,949 ROPERTIES (based on analyses or other or other of section of s	Unit Meas cu yd lb cnowledge) Dr Earth One ock Fragma	ure gal ton y/Slight Fents		One Time eum
waste 810 a. b. c.	Physic The reinstruc A deta	Drill cuttings (oil and one of the wallity assurance/quality	ual Waste Description J. GENERAL P 99 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS lical characterization of the	Amount 1,949 ROPERTIES (based on analyses or other or other of section of s	Unit Meas cu yd lb cnowledge) Dr Earth One ock Fragma	ure gal ton y/Slight Fents	Yes	One Time eum No
waste 810 a. b.	Physic The reinstruc A deta The quattach The re	Drill cuttings (oil and one of the wallity assurance/quality ed.	ual Waste Description J. GENERAL P 99 to 9.01 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS stical characterization of the	Amount 1,949 ROPERTIES (based on analyses or sthod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Resis ATTACHMENTS waste, as described intached. yed by the laboratory(sched.	Unit Meas cu yd lb cnowledge) Dr Earth One ock Fragma	y/Slight F	Yes Yes	eum No No

	- Age (1) - 3	PROCESS DESCRIPTION 8	SCHEMATIC ATTAC	CHMENTS	75	100000
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction		trol processes proc	lucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as de			n for 🔲 Yes	☐ No	⊠ N/A
	SECT	ON C. MANAGEME	NT OF RESIDU	AL WASTE		
		1. PROCESSING OR DI				
The ar	ea below (ad.) will accommo	date the identification of tv	wo facilities. Attach	additional sheets	if necessary	
а.	Solid waste permit number(s 8-4630-00010) for processing or dispos	al facility being utili	ized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge R	Road			
	Address Line 1					
	Address City State ZIP	Painted Post	NY County	14870		
	Municipality	Erwin Twp	County	Steuben		
C.	Facility Contact Name	Joseph Boyles				
	Title	(007) 007 0044	F	 		
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com	
d.	Volume of waste shipped to 1,087	cuyd gal [☐ lb lon	(check one)		
a.	Solid waste permit number(s 9-0232-00003) for processing or dispos	al facility being utili	zed.		
b.	Facility Name	Hyland Landfill				
	Address Line 1	6653 Herdman Road				
	Address Line 1					
	Address City State ZIP	Angelica	NY	14709		
	Municipality	Angelica	County	Allegany		
C.	Facility Contact Name	Larry Shilling				
	Title Phone	(505) 400 7074	Email Address	Jana de III de A	!!	
		(585) 466-7271		larry.shilling@cas	sella.com	
d.	Volume of waste shipped to 620	cuyd 🗌 gal [☐ lb ton			
		2. BENEFI	ICIAL USE		-	
a.	Has the waste been approve				☐ Yes	⊠ No
	If "Yes", list the general pern					
b.	Volume of waste beneficially	used in the previous year.	•			
	0] cu yd 🔲 gal [☐ lb ☐ ton	(check one)		

2, 1,	3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS						
a.	A detailed description of the manufacturing and/or pollution control processes producing Yes No the waste, as specified in the instructions, is attached.						
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,						
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A	
	SECTION	ON C. MANAGEN	IENT OF RESIDU	AL WASTE			
7		n a caracteristica de la formació de contrar en contrar de la contrar de	R DISPOSAL FACILITY(IE	participat ripo e recordigació e la colonida de la	19. 47. 11.		
The a	ea below (ad.) will accommod				if necessary	•	
a.	Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004						
b.	Facility Name	Chemung County Landfill 1690 Lake Street					
	Address Line 1						
	Address Line 1						
	Address City State ZIP	Elmira	NY	14903			
	Municipality	Elmira	County	Chemung			
C.	Facility Contact Name						
	Title	Environmental Manager					
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com		
d.	Volume of waste shipped to p	cu yd 🔲 gal	☐ lb 🛛 ton	(check one)			
a.	Solid waste permit number(s) for processing or disposal facility being utilized.						
b.	Facility Name						
	Address Line 1						
	Address Line 1						
	Address City State ZIP						
		Municipality County					
C.	Facility Contact Name		·····				
	Title						
	Phone Email Address						
d.	Volume of waste shipped to p	rocessing or disposal cu yd gal	facility in the previous	year. (check one)			
			IEFICIAL USE				
a.	Has the waste been approved for beneficial use?						
	If "Yes", list the general permit number or approval number.						
b.	Volume of waste beneficially	· ·		, , , , , , , , , , , , , , , , , , , ,			
	0	cu yd gal	☐ lb ☐ ton	(check one)			

SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Environmental Specialist Dina Brown Date Signature

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074058

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

WO#:

10074058

PAGE:

1 of 1

PO#:

AF77406

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

RECEIVED FOR LAB BY: DLM2	DATE:	Page 1 of 1						
SAMPLE: Inv. Cuttings		Lab ID: 10074058-001A		site				
SAMPLED BY: SG	Sample	Sample Time: 07/26/2010 11:45						
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *		
Total Petroleum Hydrocarbons	72400 mg/Kg	EPA 9071		07/27/10 12:00	07/27/10			
Sample Note: Analysis performed by	y Microbac-Erie							
SAMPLE: Inv. Cuttings		Lab ID: 10074058-001B			Composite			
SAMPLED BY: SG	Sample	Sample Time: 07/26/2010 11:45						
			<u>SLOQ</u>					
Test	<u>Result</u>	Method		Analysis Start	Analysis End			
Moisture	21.7 %	Moisture Calc.	0.01	07/26/10 10:30	07/27/10	NFM-SA		
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/26/10 16:15	07/26/10	IC-SA		
рН	9.01@21.0°C	EPA 9045C		07/27/10 12:20	07/27/10	NFM-SA		
SAMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10074058-001D	Grab					
SAMPLED BY: SG	Sample	Sample Time: 07/26/2010 11:45						
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *		
Mercury - TCLP extracted	< 0.0010 mg/L	EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV		
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV		
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV		
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV		
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV		
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV		
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV		
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV		
Selenium - TCLP extracted	< 0.500 mg/L	s EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV		
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV		
Zinc - TCLP extracted	8.30 mg/L	EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV		

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

MANAGER	Carri	, M. Davis	DATE:	7/30/2010

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081723

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081723

PAGE:

PWS ID#

1 of 2

PO#:

AF77406

PHONE: (607) 562-4000 **TEST REPORT**

FAX:

(607) 562-4000

SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Test Result Method Sample Note: Analysis performed by Microbac-Erie	SAMPLE: Air Cuttings						
Test Result Method FPA 9071				Grab			
Test	SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50	81.00			
Sample Note: Analysis performed by Microbac-Erie	<u>Test</u>	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
SAMPLE: Air Cuttings Sample Time: 08/09/2010 15:50 Sample Time: 08/09/2010 15:50 SLOQ Sloq	Total Petroleum Hydrocarbons	1230 mg/Kg	EPA 9071		08/12/10 11:10	08/12/10	
SAMPLED BY: SG Sample Time: 08/09/2010 15:50 Test	Sample Note: Analysis performed I	by Microbac-Erie					
SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Test Result Method Moisture 18.2 % Moisture Calc. 0.01 08/12/10 8:45 08/13/10 MED-Free Liquid < 0.1 % EPA 9095A 0.1 08/12/10 15:15 08/12/10 MED-PH 8.89@21.8°C EPA 9045C EPA 9045C 08/12/10 15:42 08/12/10 MED-SAMPLE: Air Cuttings Lab ID: 10081723-001C SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Sample Time: 08/09/2010 15:50 Sample Time: 08/09/2010 15:50 SLOQ Sample Time: 08/09/2010 15:50 Sample Time: 08/09/2010 15	SAMPLE: Air Cuttings		ab ID: 10081723-001B	Grab		···································	
Test Result Method Moisture Calc. 0.01 08/12/10 8:45 08/13/10 MED-Free Liquid < 0.1 % EPA 9095A 0.1 08/12/10 15:15 08/12/10 RHN-pH 8.89@21.8°C EPA 9045C EPA 9045C 08/12/10 15:42 08/12/10 MED-SAMPLE: Air Cuttings Lab ID: 10081723-001C SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Slove Time: 08/09/2010 15:50 SLOQ Slove Time: 08/09/2010 15:50 SLOQ Slove Time: 08/09/2010 15:50 Slove Time: 08/09/2010 15:50 Slove Time: 08/09/2010 15:50 Sample Time: 08/09/2010 15:50 Slove Time: 08/09/2010 15:50		Sample	Time: 08/09/2010 15:50				
Moisture		·		<u>SLOQ</u>			
Free Liquid							
pH 8.89@21.8°C EPA 9045C 08/12/10 15:42 08/12/10 MED- SAMPLE: Air Cuttings Lab ID: 10081723-001C Grab SAMPLED BY: SG Sample Time: 08/09/2010 15:50 Test Result Method Analysis Start Analysis End							MED-SA
SAMPLE: Air Cuttings Lab ID: 10081723-001C Grab SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Test Result Method Sodium 941 mg/Kg-dry EPA 6010B 108 08/13/10 9:40 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B 108 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B 10.00 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B 10.00 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted Co.500 mg/L EPA 6010B Co.500 Co.50	Free Liquid		EPA 9095A	0.1	08/12/10 15:15	08/12/10	RHN-SA
SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Test Result Method Analysis Start Analysis End Analysis Chloride 370 mg/Kg-dry EPA 6010B 108 08/13/10 9:40 08/13/10 RMD-Chloride 370 mg/Kg-dry EPA 300.0 61.1 08/11/10 14:31 08/12/10 HDP-Percent Moisture 18.2 % SM2540G 08/12/10 8:45 08/13/10 MED-SAMPLE: TCLP Leachate of Air Cuttings Lab ID: 10081723-001E Grab SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ SLOQ SLOQ Analysis Start Analysis End Analysis End Analysis Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.100 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.100 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.100 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20	pH	8.89@21.8°C	EPA 9045C		08/12/10 15:42	08/12/10	MED-SA
Test Result Method Analysis Start Analysis End Analysi	SAMPLE: Air Cuttings	L	ab ID: 10081723-001C	Grab			
Test Result Method PANALYSIS Start Analysis End Analys	SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50				
Sodium	Took	Decult	Mothod	<u>SLOQ</u>	Amabusia Otaut	Analusia End	Λ a.l
Chloride 370 mg/Kg-dry EPA 300.0 61.1 08/11/10 14:31 08/12/10 HDP- Percent Moisture 18.2 % SM2540G 08/12/10 8:45 08/13/10 MED- SAMPLE: TCLP Leachate of Air Cuttings				100			
Percent Moisture 18.2 % SM2540G 08/12/10 8:45 08/13/10 MED- SAMPLE: TCLP Leachate of Air Cuttings Lab ID: 10081723-001E Grab SAMPLED BY: SG Sample Time: 08/09/2010 15:50 Test Result Method SLOQ Mercury - TCLP extracted < 0.0008 mg/L EPA 7470A 0.0008 08/12/10 8:30 08/13/10 KW-C Arsenic - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Barium - TCLP extracted < 0.100 mg/L EPA 6010B 10.00 08/13/10 7:20 08/13/10 RMD- Cadmium - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/		• • •					
SAMPLE: TCLP Leachate of Air Cuttings Lab ID: 10081723-001E Grab SAMPLED BY: SG Sample Time: 08/09/2010 15:50 SLOQ Test Result Method Analysis Start Analysis End Anal				61.1			
SAMPLED BY: SG Sample Time: 08/09/2010 15:50 Test Result Method Analysis Start Analysis End Analysis End <th< td=""><td>Percent Moisture</td><td>18.2 %</td><td>SM2540G</td><td></td><td>08/12/10 8:45</td><td>08/13/10</td><td>MED-SA</td></th<>	Percent Moisture	18.2 %	SM2540G		08/12/10 8:45	08/13/10	MED-SA
Test Result Method Analysis Start Analysis End A	SAMPLE: TCLP Leachate of Air Cutt	ings L	ab ID: 10081723-001E	Grab			
Test Result Method Analysis Start Analysis End A	SAMPLED BY: SG	Sample	Time: 08/09/2010 15:50	01.00			
Mercury - TCLP extracted < 0.0008 mg/L EPA 7470A 0.0008 08/12/10 8:30 08/13/10 KW-C Arsenic - TCLP extracted < 0.500 mg/L	Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Arsenic - TCLP extracted < 0.500 mg/L				0.0008			KW-CV
Barium - TCLP extracted < 10.00 mg/L EPA 6010B 10.00 08/13/10 7:20 08/13/10 RMD- Cadmium - TCLP extracted < 0.100 mg/L		ŭ					RMD-CV
Cadmium - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/13/10 7:20 08/13/10 RMD- Chromium - TCLP extracted < 0.500 mg/L		J					RMD-CV
Chromium - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-		Ū					
2		ŭ					
Copper - 1-CLF extracted 0.112 mg/L EFA 0010B 0.100 06/13/10 7.20 06/13/10 KMD-		J					
Lead - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/13/10 7:20 08/13/10 RMD-	• •	•					RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carri M. Davis	DATE:	8/13/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081723

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081723

PAGE:

2 of 2

PO#:

AF77406

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

RECEIVED FOR LAB BY: DLM2	DATE:	08/10/2010 15:33				age 2 of 2
Nickel - TCLP extracted	0.230 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Zinc - TCLP extracted	0.735 mg/L	EPA 6010B	0.200	08/13/10 7:20	08/13/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie	M. Davis	D	ATE:	8/13/2010



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the space d sheet as Form 26R,	ately completed. All requise provided. If additional sported item numbers needs to match the date	ace is necessary, iden er and identify the d	tify 🗀	DEP. I Date Receive		
Genera	al Refe	rence 287.54						
Date P	repare		ebruary 11, 2011					
			CLIENT (GENERATOR	R OF THE WASTE) IN	NFORM	ATION		
	any Nar	me ergy USA Inc.						
		y, Name of Parent Com	pany			EPA (Gener	rator ID#
Talism	an En	ergy Inc.				N/A		
	-	iling Address Line 1	С	ompany Mailing Addre	ss Line 2			
		d Place dress Last Line – City	State	Zip+4	Pho	ne		Ext
Warre	-		PA	15086		l) 814-530	0	LAC
-	-	ntact Last Name	First Name	MI	,	Suffix	(***************************************
Brown			Dina					- II
Munici Warre				County Allegheny				
	t Phon	e Ext	Contact Email Address	ognony		*****		
	314-53		dybrown@talismanusa.c					
	-	•	ny Mailing Address (noted	•		l	Yes	⊠ No
the			neration and storage. Drill on the detection and storage. Drill on the detection and storage.					
	$\overline{}$		tod at office t amproon thouas,	moy rounding, bradiera	ocurry, r	71. TTUOLO	10 0101	ou iii
	ers on s	site.						
Munici		site. Troy	County Bradfo		,	State	PA	
Munici	pality	Troy	SECTION B. WAST				PA_	
Munici Resid	pality dual	Troy Resid	SECTION B. WAST	E DESCRIPTION	Uni	t of	PA	Time
Munici Resid Waste	pality dual	Troy Resid	SECTION B. WAST dual Waste Description	E DESCRIPTION Amount	Uni <u>M</u> ea	t of sure	PA	Time Frame
Munici Resid	pality dual	Troy Resid	SECTION B. WAST dual Waste Description gas)	Amount 3,377	Uni	t of	PA	
Resid Waste 810	pality dual Code	Troy Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P	Amount 3,377 ROPERTIES	Uni Mea cu yd lb	t of sure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67	Amount 3,377 ROPERTIES (based on analyses or k	Uni Mea cu yd lb	t of sure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me	Amount 3,377 ROPERTIES (based on analyses or kelthod 9095)	Uni Mea cu yd lb	t of sure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90)	Amount 3,377 ROPERTIES: (based on analyses or kethod 9095) 95)	Uni Mea cu yd lb	t of sure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra Physic	Troy Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo	Uni Mea	t of sure gal		One Time
Resid Waste 810	pality dual Code pH Ra Physic	Troy Resid Code I Drill cuttings (oil and nge 7. cal State	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo	Uni Mea	t of sure gal ton		One Time
Resid Waste 810	pality dual Code pH Ra Physic	Troy Resid Code I Drill cuttings (oil and nge 7. cal State	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo I Phases of Separation	Uni Mea cu yd lb nowledge	t of sure gal ton		One Time
Resid Waste 810	pality dual Code pH Ra Physic	Troy Resid Code I Drill cuttings (oil and nge 7. cal State	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo Phases of Separation eparation. Soil and Ro	Uni Mea cu yd lb nowledge	t of sure gal ton		One Time
Resid Waste 810	pality dual Code pH Ra Physic	Troy Resic Code Drill cuttings (oil and nge 7. cal State cal Appearance sults of a detailed chem	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo I Phases of Separation eparation. Soil and Ro	Uni Mea Cu yd Ib Inowledge FEarti One Ick Fragm	t of sure gal ton hy/Slight F		One Time
Resid Waste 810	pality dual Code pH Ra Physic Physic	Troy Resic Code Drill cuttings (oil and nge 7. cal State cal Appearance sults of a detailed cherctions, is attached.	SECTION B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo Phases of Separation eparation. Soil and Ro BIS ATTACHMENTS e waste, as described in	Uni Mea Cu yd Ib Inowledge FEarti One Ick Fragm	t of sure gal Ston hy/Slight F	Petrol	Frame One Time eum
Resid Waste 810 a. b.	pality dual Code pH Ra Physic Physic The re instruct A deta	Troy Resid Code Drill cuttings (oil and nge 7. cal State cal Appearance sults of a detailed cheretions, is attached. lilled description of the vality assurance/quality	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS nical characterization of the	Amount 3,377 ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo Phases of Separation eparation. Soil and Ro SIS ATTACHMENTS e waste, as described in	Uni Mea cu yd lb nowledge r Earti One ck Fragm	t of sure gal Ston hy/Slight F	Petrol	Prame One Time eum No
Resid Waste 810 a. b.	pality dual Code pH Ra Physic Physic The re instruc A deta The qu attach The re	Troy Resid Code Drill cuttings (oil and nge 7. cal State cal Appearance sults of a detailed cheretions, is attached. Illed description of the vality assurance/quality ed. sults of the hazardous	SECTION®B. WAST dual Waste Description gas) 1. GENERAL P 90 to 9.67 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS mical characterization of the waste sampling method is a	Amount 3,377 ROPERTIES (based on analyses or keythod 9095) 95) ture & pressure) Odo I Phases of Separation eparation. Soil and Ro Sis ATTACHMENTS waste, as described in attached. yed by the laboratory(in	Uni Mea cu yd lb nowledge r Earti One ck Fragm	t of sure gal Ston hy/Slight Finents	Petrol	eum No

1		PROCESS DESCRIPTION &	opplication in the second of the second of the following of the second of the second of the second of the second	A TOTAL CONTRACTOR OF THE STATE	4.772,7574		
a.	A detailed description of the manufacturing and/or pollution control processes producing Yes No the waste, as specified in the instructions, is attached.						
b.	A schematic of the manufactor as specified in the instruction	uring and/or pollution con is, is attached.	trol processes prod	lucing the waste,	⊠ Yes	☐ No	
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A	
	SECTION	ON C. MANAGEME	NT OF RESIDU	AL WASTE			
4		1. PROCESSING OR D	SPOSAL FACILITY(IE	s)	33		
The a	ea below (ad.) will accommod	late the identification of t	vo facilities. Attach	additional sheets	if necessary	•	
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispos	al facility being utili	zed.			
b.	Facility Name	Hyland Landfill					
	Address Line 1	6653 Herdman Road					
	Address Line 1		****				
i	Address City State ZIP	Angelica	NY NY	14709			
	Municipality	Angelica	County	Allegany			
C.	Facility Contact Name	Larry Shilling					
1	Title						
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com		
d.	Volume of waste shipped to p 2,218	cu yd 🔲 gal	☐ lb ton	(check one)	1		
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispos	al facility being utili	zed.			
b.	Facility Name	Hakes C&D Landfill					
	Address Line 1	4376 Manning Ridge R	load				
	Address Line 1						
	Address City State ZIP	Painted Post	NY	14870		.,	
	Municipality	Erwin Twp	County	Steuben			
C.	Facility Contact Name	Joseph Boyles					
	Title Phone	(007) 007 0044	Email Address	ing bandas@aasa	-11		
		(607) 937-6044 (585) 466-7271		joe.boyles@case	ella.com		
d.	Volume of waste shipped to p						
	907	cu yd gal	☐ lb ton	(check one)			
		2. Benef	ICIAL USE				
a.	Has the waste been approved	for beneficial use?			☐ Yes	⊠ No	
	If "Yes", list the general perm						
b.	Volume of waste beneficially to	used in the previous year cu yd gal	lb ton	(check one)			

	3.	PROCESS DESCRIPTION	N & SCHEMATIC ATTAC	CHMENTS		
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,					
C.	If portions of the information a confidentiality claim, as de	submitted are confide scribed in the instruction	ntial, the substantiatio ons, is attached.	n for 🗌 Yes	☐ No	⊠ N/A
	SECTI	ON C. MANAGEN	AP 27 7 A	ALCOHOLOGO (PYCHALOGO ALCOHOLOGO PALAMON AND AND AND AND AND AND AND AND AND AN		
T1			DISPOSAL FACILITY (IE			
	rea below (ad.) will accommod				if necessary	•
а.	Solid waste permit number(s 100361) for processing or disp	oosal facility being util	ized.		
b.	Facility Name	McKean County Lar	ndfill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		**********
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld		-		···
	Title	(2.11) ====				
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped to p	orocessing or disposal cu yd gal	facility in the previous lb ton			
a.	Solid waste permit number(s)	for processing or disp	oosal facility being util	zed.		
b.	Facility Name					
	Address Line 1					
	Address Line 1					
	Address City State ZIP					···
	Municipality		County			
c.	Facility Contact Name			***************************************		
	Title					
	Phone		Email Address			
d.	Volume of waste shipped to p	rocessing or disposal cu yd gal	facility in the previous lb ton	year. (check one)		
of a control			IEFICIAL USE			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially	· <u> </u>				
	0	cu yd gal	☐ Ib ☐ ton	(check one)		

			SECTION D. CERTIFICATION			
Repo obtain know	I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.					
Chec	k the following, if applicat	ole:				
	I certify the information and has not chan	•	ired in Section B-1, General Properties was supplied to the Department for the year			
	Form Submitted:		Form 26R			
			Other (specify)			
	Date Submitted:					
	I certify the information and has not chan	-	ired in Section B-2, Chemical Analysis was supplied to the Department for the year			
	Form Submitted:		Form 26R			
			Other (specify)			
	Date Submitted:					
	I certify the information of the year and h		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.			
	Form Submitted:		Form 26R			
			Other (specify)			
	Date Submitted:					
Name	of Responsible Official		Title Environmental Specialist			
Dina Signa	Brown ture	5	Date 2(25/11			

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10092016

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

(607) 562-4000

(607) 562-4001

Horseheads, NY 14845

WO#:

10092016

PAGE:

1 of 2

PO#:

PWS ID#

AF77728

TEST REPORT

01-071

PHONE:

FAX:

RECEIVED FOR LAB BY: TJC	DAT	E: 09/13	3/2010 17:12			Pa	age 1 of 2
SAMPLE: Air Cuttings			10092016-001A	Grab			
SAMPLED BY: SG	San	nple Time:	09/13/2010 12:20	SLOQ			
<u>Test</u>	Result		<u>Method</u>	<u>orog</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 209 mg/Kg		EPA 9071	209	09/19/10 10:20	09/19/10	
Sample Note: Analysis performed b	y Microbac Laboratorie	es, IncErie	Division				
SAMPLE: Air Cuttings		Lab ID:	10092016-001B	Grab			
SAMPLED BY: SG	San	nple Time:	09/13/2010 12:20				
- .	D 1		1.4 () 1	<u>SLOQ</u>	A 1 1 01 1		
<u>Test</u>	Result		Method	0.04	Analysis Start	Analysis End	
Moisture	25.3 %		Moisture Calc.	0.01	09/14/10 10:00	09/15/10	MED-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	09/14/10 15:05	09/14/10	IC-SA
рН	7.90@20.3°C		EPA 9045C		09/14/10 14:26	09/14/10	MED-SA
SAMPLE: Air Cuttings		Lab ID:	10092016-001C	Grab			
SAMPLED BY: SG	San	nple Time:	09/13/2010 12:20				
Toot	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
<u>Test</u> Sodium	< 180 mg/Kg-dry		EPA 6010B	180	09/16/10 8:30	09/16/10	RMD-CV
Chloride	< 66.9 mg/Kg-dry	MS	EPA 300.0	66.9	09/15/10 15:09	09/16/10	HDP-CV
******	25.3 %	1410		00.9			
Percent Moisture	25.3 %		SM2540G	_	09/14/10 10:00	09/15/10	MED-SA
SAMPLE: TCLP Leachate of Air Cutti	ings	Lab ID:	10092016-001E	Grab			
SAMPLED BY: SG	San	nple Time:	09/15/2010 9:00				
Test	Result		Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	09/15/10 9:00	09/16/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	09/16/10 8:00	09/16/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	09/16/10 8:00	09/16/10	
	· ·						RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MS Limit of detection increased due to matrix interference and spike recovery data

MANAGER	Cani	M. Davis	DATE	, 7/20/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10092016

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

337 Daniel Zenker Dr

COMPANY: Talisman Energy USA, Inc.

Horseheads, NY 14845

WO#:

10092016

PAGE:

2 of 2

PO#:

AF77728

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

RECEIVED FOR LAB BY: TJC	DATE:	09/13/2010 17:12			F	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	09/16/10 8:00	09/16/10	RMD-CV

TEST REPORT

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MS Limit of detection increased due to matrix interference and spike recovery data

MANAGER	Gun	M. Davis	DATE:	9/20/2010
	-00004			

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103216

10/23/10 RMD-CV

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10103216

PAGE:

1 of 2

PO#:

AF77729

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

01-071

RECEIVED FOR LAB BY: TJC	DATE:	10/21/2010 11:37			Pa	ige 1 of 2
SAMPLE: Inv. Cuttings	L	ab ID: 10103216-001A	Compo	site		
SAMPLED BY: SG	' Sample	Time: 10/19/2010 10:39	01.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	115000 mg/Kg	EPA 9071	170	10/23/10 9:00	10/23/10	
Sample Note: Analysis performed	• •	ncErie Division.				
SAMPLE: Inv. Cuttings	L	ab ID: 10103216-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 10/19/2010 10:39				
T	DIt	B dinata nad	SLOQ	Amelyala Céant	Analysis End	Amalum 4
Test	<u>Result</u> 11.1 %	<u>Method</u> Moisture Calc.	0.01	Analysis Start 10/25/10 15:00	Analysis End 10/26/10	Analyst*
Moisture						NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	10/22/10 15:10	10/22/10	IC-SA
pH	9.67@23.0°C	EPA 9045C	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	10/26/10 8:50	10/26/10	NFM-SA
SAMPLE: Inv. Cuttings	L	ab ID: 10103216-001C	Compo	site		
SAMPLED BY: SG	Sample	Time: 10/19/2010 10:39				
T4		k i m din m di	SLOQ	Ameliania Otaat	Ameliaia Fad	5 l 6 *
Test	Result	Method	50 E	Analysis Start	Analysis End	Analyst*
Sodium	704 mg/Kg-dry	EPA 6010B	92.5	10/22/10 10:40	10/22/10	RMD-CV
Chloride	329 mg/Kg-dry	EPA 300.0	55.1	10/22/10 15:07	10/23/10	HDP-CV
Percent Moisture	11.1 %	SM2540G		10/25/10 15:00	10/26/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. C	uttings L	ab ID: 10103216-001E	Compo	site		
SAMPLED BY: SG	Sample	Time: 10/22/2010 7:30	01.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	10/23/10 10:20	10/24/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0,500	10/23/10 11:10	10/23/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	10/23/10 11:10	10/23/10	RMD-CV
	-	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Cadmium - TCLP extracted Chromium - TCLP extracted	< 0.100 mg/L < 0.500 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV

REMARKS:

Copper - TCLP extracted

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

EPA 6010B

0.100 10/23/10 11:10

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.100 mg/L

MANAGER	Carrie M. Davis	DATE:	10/26/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103216

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10103216

PAGE:

2 of 2

PO#:

AF77729

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

01-071

RECEIVED FOR LAB BY: TJC

ECEIVED FOR LAB BY: TJC	DATE:	10/21/2010 11:37			P	age 2 of 2
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Nickel - TCLP extracted	0.138 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Zinc - TCLP extracted	0.217 mg/L	EPA 6010B	0.200	10/23/10 11:10	10/23/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER

DATE:

10/26/2010

CHAIN OF CUSTODY					10103	216		PAGE 1	<u> </u> (OF	_1	_
Talisman / UEG	W	O# -	1010	3216	3840			ARE SPECIAL D	HECT	ION I HEIT	·e	¬
jeowetlands@aol.com	•	$\mathbf{O}\pi$.	1010	3210				NEEDED: YES	E I		3	
wollin@rallysolutions.ca	REFRIGERATE SAMPLES	<u> </u>	1	, 0, 000 0, 1,	RESULTS A	RE BEING USED	FOR:	IF YES, PLEASE.	BI -	•		
	AFTER COLLECTION	/OV		+	NYDOH	NYDEC	PADEP	1	H	SE NEEDE	:D?	
ONTACT Steve Gridley		G	V SURFACE WA	TER HZ HAZARDOL		LANDFILL		1	ES FZ			
H# 607-731-0145	TRANSPORT TO	: / <u>w</u>	DEMONIZED W		WATER PERSONAL	OTHER		IF YES, PLEASE	ATTACI	- H REQUIR	EMENT	s
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				Tranz	John			DATE:		TIME:	3 / 570-881-0	



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

Date Prepared/Revised February 11, 2011 SECTION A. CLIENT (GENERATOR OF THE WASTE) INFORMATION	typed or le	This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.					ONLY eneral Notes
SECTION A. CLIENT (GENERATOR OF THE WASTE) INFORMATION Company Name Talisman Energy USA Inc. If a Subsidiary, Name of Parent Company Talisman Energy Inc. Company Mailing Address Line 1 SO Pennwood Place Company Address Last Line - City Warrendale Company Contact Last Name Brown Dina County Warrendale Contact Phone Ext Contact Email Address (724) 814-5300 Contact Phone Ext Allegheny Contact Phone Ext Contact Email Address (724) 814-5321 User Contact Email Address (724) 814-5321 State Dina County Warrendale Contact Phone Ext Contact Email Address (724) 814-5321 User Contact Email Address (724) 814-5301 User Contact Email Address (724) 814-5301 User Contact Email Address (724) 814-5302 User Co	General R						
Company Name Tallsman Energy USA Inc. If a Subsidiary, Name of Parent Company Tallsman Energy Inc. Company Mailing Address Line 2	Date Prep						
Talisman Energy USA Inc. If a Subsidiary, Name of Parent Company Talisman Energy Inc. Company Mailing Address Line 1 50 Pennwood Place Company Address Last Line - City Warrendale Company Contact Last Name Brirst Name Dina County Municipality Warrendale Ext County Municipality Warrendale Contact Phone (724) 814-5321 State Side Address County Warrendale Contact Phone (724) 814-5321 State Side Address County Municipality Warrendale Ext Contact Phone (724) 814-5321 State Side Address County Warrendale Contact Phone (724) 814-5321 State Address County Warrendale State Side Address County Warrendale State Address County Warrendale State Address County Warrendale State Side Address County Warrendale State Address Address County Warrendale County Warrendale State Address Address County Warrendale State Address Address			CLIENT (GENERATOR	R OF THE WASTE) I	NFORMATIO	N	
Fashisidiary, Name of Parent Company Talisman Energy Inc. Company Mailing Address Line 1 Company Mailing Address Line 2							
Company Mailling Address Line 1 State State State State Phone Ext Company Address Last Line - City State Phone	If a Subsic	iary, Name of Parent Comp	pany			EPA Gene	rator ID#
State Company Address Last Line - City State Zip+4 Phone Ext						V/A	
State Zip+4 Phone Ext Company Contact Last Name First Name Dina Suffix		_	С	ompany Mailing Addre	ess Line 2		
Marrendale			State	Zip+4	Phone		Ext
Municipality County Allegheny All	Warrenda	e	PA	•	(724) 814	-5300	
Municipality Warrendale County Allegheny Contact Phone (724) 814-5321 Ext Ocntact Email Address (noted above)? Yes ∑ No If 'No', describe location of waste generated at the Company Mailing Address (noted above)? Yes ∑ No If 'No', describe location of waste generation and storage. Drill cuttings are generated during natural gas drilling operations at the (01-032) well pad site located at 554 Alba Mountain Road, Canton Township, Bradford County, PA. Waste is stored in containers on site. Municipality Canton County Bradford State PA SECTION B. WASTE DESCRIPTION Residual Waste Code Description Amount Measure Frame 810 Drill cuttings (oil and gas) 4,091 Unit of Measure Prame Time Frame 8 ph Range 9.18 to 10.33 (based on analyses or knowledge) b. Physical State 1 Liquid Waste (EPA Method 9095) Solid (EPA Method 9095) Solid (EPA Method 9095) Earthy/Slight Petroleum Color Greyish Black Odor Greyish Black Odor Aumber of Solid or Liquid Phases of Separation Odor Done Earthy/Slight Petroleum		Contact Last Name		MI	\$	Suffix	
Marrendale				County	A	-	
Contact Phone				•			
Is the waste generated at the Company Mailing Address (noted above)? If 'No', describe location of waste generation and storage. Drill cuttings are generated during natural gas drilling operations at the (01-032) well pad site located at 554 Alba Mountain Road, Canton Township, Bradford County, PA. Waste is stored in containers on site. Municipality Canton County Bradford State PA SECTION B. WASTE DESCRIPTION Residual Waste Code Description Residual Waste Code Description Amount Unit of Measure Frame 4,091 Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd gal One Time Cu yd Gal One Time Cu yd Gal One Time Cu yd Gal One Time Cu yd Gal One Time Cu yd Gal One Time Cu yd Gal One Time Cu yd Gal One Time			Contact Email Address				
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Municipality Canton County Bradford State PA SECTION B. WASTE DESCRIPTION Residual Waste Code Residual Waste Code Description Amount Unit of Measure Frame 810 Drill cuttings (oil and gas) 4,091 □ cu yd □ gal □ lb □ ton □ One Time SENERAL PROPERTIES a. pH Range 9.18 to 10.33 (based on analyses or knowledge) b. Physical State Liquid Waste (EPA Method 9095) Solid (EPA Method 9095) Solid (EPA Method 9095) Gas (ambient temperature & pressure) Color Greyish Black Odor Earthy/Slight Petroleum Number of Solid or Liquid Phases of Separation One							
Residual Waste Code Residual Waste Code Description Amount Measure Frame			County Bradfe	ord	State	ÐΔ	
Residual Waste Code Residual Waste Code Description Amount Measure Frame	mamerpan	<u>J</u> Canton				<u> </u>	
810 Drill cuttings (oil and gas) 4,091 Cu yd gal lb lb lb lb lb lb lb lb lb lb lb lb lb lb lb lb lb lb	Residua	Resid					Time
### Application Drill cuttings (oil and gas)	Waste Co	e Code D	escription	<u>Amount</u>			Frame
A. pH Range 9.18 to 10.33 (based on analyses or knowledge) b. Physical State Liquid Waste (EPA Method 9095) Solid (EPA Method 9095) Gas (ambient temperature & pressure) c. Physical Appearance Color Greyish Black Odor Earthy/Slight Petroleum Number of Solid or Liquid Phases of Separation One	810	Drill cuttings (oil and	gas)	4,091			One Time
b. Physical State		-	1. GENERAL P	ROPERTIES			
Solid (EPA Method 9095) Gas (ambient temperature & pressure) c. Physical Appearance Color Greyish Black Odor Number of Solid or Liquid Phases of Separation One Color One					knowledge)		
Number of Solid or Liquid Phases of Separation One	b. Ph	sical State	Solid (EPA Method 90	95)	d .		
	c. Ph	sical Appearance	Color Greyish Black	Ode	or Earthy/Sli	ght Petro	leum
Describe each phase of separation. Soil and Rock Fragments			Number of Solid or Liquid	d Phases of Separation	one One		
			Describe each phase of s	eparation. Soil and Re	ock Fragments		7700
2. CHEMICAL ANALYSIS ATTACHMENTS			2. CHEMICAL ANALYS	SIS ATTACHMENTS			
a. The results of a detailed chemical characterization of the waste, as described in the				TO 17 DECEMBER 1971 SET 18 SET 18 SET 1971 SET 18 SET 1971 SET 1971 SET 1971 SET 1971 SET 1971 SET 1971 SET 19	n the	⊠ Yes	☐ No
instructions, is attached. b. A detailed description of the waste sampling method is attached. Yes No			vaste sampling method is a	attached		⊠ Yes	□ No
c. The quality assurance/quality control procedures employed by the laboratory(les) is Yes No attached.	c. Th	quality assurance/quality			les) is		
d. The results of the hazardous waste determination is attached.			vaste determination is atta	ched.			☐ No
	e. If a		ation supporting use of ge		Yes	☐ No	⊠ N/A

		PROCESS DESCRIPTION			frank i de d			
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No		
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, Yes No as specified in the instructions, is attached.							
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A		
	SECTION	ON C. MANAGEMI	ENT OF RESIDU	AL WASTE				
		1. Processing or I	DISPOSAL FACILITY(IE	s)				
The a	rea below (ad.) will accommod	date the identification of	two facilities. Attach	additional sheets	if necessary	•		
a.	Solid waste permit number(s 9-0232-00003) for processing or dispo	sal facility being utili	zed.				
b.	Facility Name	Hyland Landfill						
	Address Line 1	6653 Herdman Road						
	Address Line 1					<u></u> .		
	Address City State ZIP	Angelica	NY	14709				
	Municipality	Angelica	County	Allegany				
С.	Facility Contact Name	Larry Shilling	<u> </u>					
	Title							
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com			
d.	2,494							
а.	a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-4630-00010							
b.	Facility Name	Hakes C&D Landfill						
	Address Line 1	4376 Manning Ridge	Road					
	Address Line 1							
	Address City State ZIP	Painted Post	NY	14870				
	Municipality	Erwin Twp	County	Steuben				
C.	Facility Contact Name	Joseph Boyles						
	Title Phone	(607) 937-6044	Email Address	ing barden@ann				
	Filone	(585) 466-7271	Email Address	joe.boyles@case	ana.com			
d.	(585) 466-7271 Volume of waste shipped to processing or disposal facility in the previous year.							
anticle and was to a first to the	1,377	cu yd 🔲 gal	☐ lb 🖂 ton					
_	Ilaa Aba waada baara		FICIAL USE			NZI N		
a.	Has the waste been approved				∐ Yes	⊠ No		
	If "Yes", list the general perm							
b.	Volume of waste beneficially 0	used in the previous yea cu yd gal	r.	(check one)				

		PROCESS DESCRIPTION						
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No		
b.	A schematic of the manufact as specified in the instruction		ntrol processes proc	fucing the waste,	⊠ Yes	☐ No		
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A		
4.7	SECTI	ON C. MANAGEME 1. Processing or D						
The a	rea below (ad.) will accommo				if necessary			
a.	Solid waste permit number(s 8-0728-00004) for processing or dispo	sal facility being util	ized.				
b.	Facility Name	Chemung County Lan	dfill					
	Address Line 1	1690 Lake Street						
	Address Line 1							
	Address City State ZIP	Elmira	NY	14903				
	Municipality	Elmira	County	Chemung				
C.	Facility Contact Name	Carla Canjar	***************************************					
	Title	Environmental Manag	er					
ĺ	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com			
d.	d. Volume of waste shipped to processing or disposal facility in the previous year. 164 □ cu yd □ gal □ lb ☑ ton (check one)							
a.	Solid waste permit number(s 100361) for processing or dispo	sal facility being utili	zed.				
b.	Facility Name	McKean County Land	fill					
	Address Line 1	19 Ness Lane						
	Address Line 1							
	Address City State ZIP	Kane	PA	16735				
	Municipality	Sergeant Twp	County	McKean	_			
C.	Facility Contact Name	Mike Manderfeld						
	Title							
	Phone	(814) 778-9931	Email Address	manderfeld@gma	ail.com			
d.	Volume of waste shipped to	processing or disposal fa				····		
	56	cu yd 🔲 gal	☐ lb 🖾 ton	(check one)				
25-2			FICIAL USE	N. C.				
a.	Has the waste been approved	l for beneficial use?			Yes	⊠ No		
	If "Yes", list the general perm	nit number or approval nu	mber.					
b.	Volume of waste beneficially 0	used in the previous year	r.	(check one)				
				···				

	SECTION D. CERTIFICATION
Report and all attached docu obtaining the information, I knowledge. I understand that	hat I have personally examined and am familiar with the information submitted in this Annual ments and that based upon my inquiry of those individuals immediately responsible for verify that the submitted information is true, accurate and complete to the best of my the submission of false information herein is made subject to the penalties of 18 Pa. C.S. fication to authorities, which include fine and imprisonment.
Check the following, if applicat	le:
I certify the information and has not chan	required in Section B-1, General Properties was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
I certify the information	required in Section B-2, Chemical Analysis was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
I certify the information if for the year and h	equired in Section B-3, Process Description and Schematic, was supplied to the Department as not changed.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
Name of Responsible Official	Title Environmental Specialist
Dina Brown	
Signature	Date 2/28/11

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074528

Analysis End Analyst *

08/02/10

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

WO#:

10074528

PAGE:

1 of 2

PO#:

AF76317

PWS ID#

Analysis Start

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

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<u>Test</u>

RECEIVED FOR LAB BY: DLM2	DATE: 07/29/2010 9:32		Page 1 of 2
SAMPLE: Air Cuttings	Lab ID: 10074528-001A	Grab	
SAMPLED BY: SG	Sample Time: 07/28/2010 15:00	81.00	
		<u>SLOQ</u>	

Method

Total Petroleum Hydrocarbons	890 mg/Kg	EPA 9071		08/02/10 10:05
Sample Note: Analysis performed b	y Microbac- Erie			
SAMPLE: Air Cuttings		Lab ID: 10074528-001B	Grab	
SAMPLED BY: SG	Sai	mple Time: 07/28/2010 15:00		

Result

	·		SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	16.1 %	Moisture Calc.	0.01	07/29/10 14:30	07/30/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/30/10 17:10	07/30/10	IC-SA
pН	10.33@21.0°C	EPA 9045C		07/29/10 8:00	07/30/10	NFM-SA

SAMPLE: Air Cuttings	Lab ID: 10074528-001C	Grab
SAMPLED BY: SG	Sample Time: 07/28/2010 15:00	

			SLUQ			
Test	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Sodium	1280 mg/Kg-dry	EPA 6010B	71.8	07/30/10 8:30	07/31/10	RMD-CV
Chloride	173 mg/Kg-dry	EPA 300.0	59.6	07/30/10 15:42	07/31/10	HDP-CV
Percent Moisture	16.1 %	SM2540G		07/29/10 14:30	07/30/10	NFM-SA

SAMPLE: TCLP Leachate of Air Cuttings	Lab ID: 10074528-001E	Grab
CAMBLED BY: CC	Sample Time: 07/30/2010 7:50	

SAMELLO DT. 3G	Gample Time. Of	30/2010 7.30
	•	SLOC

			<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	07/30/10 12:50	08/03/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/02/10 8:30	08/02/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/02/10 8:30	08/02/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/02/10 8:30	08/02/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/02/10 8:30	08/02/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/02/10 8:30	08/02/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/02/10 8:30	08/02/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	(uni M)avis	DATE:	8/4/2010
	and in the		

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074528

08/02/10

RMD-CV

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: ADDRESS:

Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#: 10074528

PAGE:

2 of 2

PO#:

AF76317

PWS ID#

1.80

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

Well

RECEIVED FOR LAB BY: DLM2 DATE: 07/29/2010 9:32 Page 2 of 2 Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 08/02/10 08/02/10 8:30 RMD-CV Selenium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 08/02/10 8:30 08/02/10 RMD-CV Silver - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/02/10 8:30 08/02/10 RMD-CV Zinc - TCLP extracted 60.4 mg/L **EPA 6010B** 08/02/10 8:30

TEST REPORT

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

•	/ /	-, ·			
MANAGER	فيدول)	M Javis	DA	\TF·	8/4/2010
	unuy	101.		· · · · · · ·	37 77 2 3 2 3

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081716

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081716

PAGE:

1 of 1

PO#:

AF77446

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

RECEIVED FOR LAB BY: DLM2

DATE: 08/10/2010 15:33

TEST REPORT

Lab ID: 10081716-001A

Lab ID: 10081716-001B

Sample Time: 08/10/2010 12:10

Method

EPA 9071

Grab

SLOQ

Grab

Analysis Start 08/12/10 11:10

Analysis End Analyst * 08/12/10

Page 1 of 1

Sample Note: Analysis performed by Microbac-Erie

SAMPLE: Inv. Cuttings

SAMPLE: Inv. Cuttings

Test

SAMPLED BY: SG

Total Petroleum Hydrocarbons

SAMPLED BY: SG Sample Time: 08/10/2010 12:10

Result

149000 mg/Kg

SLOQ Method **Analysis Start** Analysis End Analyst * Test Result Moisture 29.5 % Moisture Calc. 0.01 08/12/10 8:45 08/13/10 MED-SA EPA 9095A 08/12/10 15:00 Free Liquid < 0.1 % 08/12/10 RHN-SA 08/12/10 15:42 08/12/10 pΗ 9.45@21.5°C EPA 9045C MED-SA

SAMPLE: TCLP Leachate of Inv. Cuttings

Lab ID: 10081716-001D

SAMPLED BY: SG	Sample Time: 0	8/10/2010 12:10				
			<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	<u>Analysis End</u>	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	08/12/10 8:30	08/13/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/13/10 7:20	08/13/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Nickel - TCLP extracted	0.111 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Zinc - TCLP extracted	0.214 mg/L	EPA 6010B	0.200	08/13/10 7:20	08/13/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

	\(\frac{1}{2}\)		
MANAGER	Carrie M. Darks	DATE:	8/13/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081719

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc.

Horseheads, NY 14845

ADDRESS: 337 Daniel Zenker Dr

TEST REPORT

PAGE: PO#:

WO#:

AF77446

1 of 1

10081719

PWS ID#

PHONE:

(607) 562-4000

FAX: (607) 562-4001

RECEIVED FOR LAB BY: DLM2	DATE	E: 08/10/2010 15:33			Pa	age 1 of 1
SAMPLE: Inv. Cuttings & Biomatrix SAMPLED BY: SG	San	Lab ID: 10081719-001A nple Time: 08/10/2010 12:15	Grab SLOQ			
<u>Test</u> Total Petroleum Hydrocarbons Sample Note: Analysis performed by	<u>Result</u> 169000 mg/Kg Microbac-Erie	<u>Method</u> EPA 9071	<u> </u>	Analysis Start 08/12/10 11:10	<u>Analysis End</u> 08/12/10	Analyst *
SAMPLE: Inv. Cuttings & Biomatrix SAMPLED BY: SG	San	Lab ID: 10081719-001B	Grab SLOQ			
<u>Test</u> Moisture Free Liquid pH	Result 23.4 % < 0.1 % 9.18@21.9°C	<u>Method</u> Moisture Calc. EPA 9095A EPA 9045C	0.01	Analysis Start 08/12/10 8:45 08/12/10 15:05 08/12/10 15:42	Analysis End 08/13/10 08/12/10 08/12/10	Analyst * MED-SA RHN-SA MED-SA
SAMPLE: TCLP Leachate of Inv. Cutting	_	Lab ID: 10081719-001D	Grab SLOQ			
Test Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted Nickel - TCLP extracted Selenium - TCLP extracted Silver - TCLP extracted	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.200 mg/L	Method EPA 7470A EPA 6010B	0.0008 0.500 10.00 0.100 0.500 0.100 0.500 0.100 0.500 0.100	Analysis Start 08/12/10 8:30 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20 08/13/10 7:20	Analysis End 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10 08/13/10	Analyst* KW-CV RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie M. Davis	DATE:	8/13/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10082687

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10082687

PAGE:

1 of 2

PO#:

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Relog of 10081719-001

RECEIVED FOR LAB BY: DLM2

DATE: 08/10/2010 15:33

Page 1 of 2

SAMPLE: TCLP Leachate of Inv. Cutti	ings & Biomatrix	Lab ID	: 10082687-001B	Grab			
SAMPLED BY: SG	Sam	ple Time	: 08/17/2010 8:18				
Test	Result		Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Pyridine	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
o-Cresol	< 0.10 mg/L	Υ	EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	Y	EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachloroethane	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Nitrobenzene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
	J		EPA 8270C	0.10	08/18/10 15:52	08/18/10	
2,4,6-Trichlorophenol	< 0.10 mg/L						RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L		EPA 8270C	0.50	08/18/10 15:52	08/18/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
	_						
SAMPLE: ZHE Extract of Inv. Cuttings	& Biomatrix	Lab ID	: 10082687-001C	Grab			
SAMPLE: ZHE Extract of Inv. Cuttings SAMPLED BY: SG			: 10082687-001C : 08/17/2010 8:15	Grab			
SAMPLED BY: SG	Sam		: 08/17/2010 8:15	Grab SLOQ			
SAMPLED BY: SG <u>Test</u>	Sam <u>Result</u>		: 08/17/2010 8:15 <u>Method</u>	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
SAMPLED BY: SG <u>Test</u> Benzene	Sam <u>Result</u> < 0.02 mg/L		: 08/17/2010 8:15 <u>Method</u> EPA 8260B	<u>SLOQ</u> 0.02	08/17/10 20:26	08/18/10	RHH-SA
SAMPLED BY: SG <u>Test</u>	Sam <u>Result</u>		: 08/17/2010 8:15 <u>Method</u>	<u>SLOQ</u>			
SAMPLED BY: SG <u>Test</u> Benzene	Sam <u>Result</u> < 0.02 mg/L		: 08/17/2010 8:15 <u>Method</u> EPA 8260B	<u>SLOQ</u> 0.02	08/17/10 20:26	08/18/10	RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone	Sam <u>Result</u> < 0.02 mg/L < 0.20 mg/L		: 08/17/2010 8:15 <u>Method</u> EPA 8260B EPA 8260B	SLOQ 0.02 0.20	08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10	RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride	Sam <u>Result</u> < 0.02 mg/L < 0.20 mg/L < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene	Result < 0.02 mg/L < 0.20 mg/L < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02 0.02	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform	Result < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02 0.02 0.02	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	Result < 0.02 mg/L < 0.20 mg/L < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02 0.02 0.02 0.02	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane	Result < 0.02 mg/L < 0.20 mg/L < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02 0.02 0.02 0.02 0.02	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10 08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA
SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene 1,2-Dichloroethane 1,1-Dichloroethene	Result < 0.02 mg/L		Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	SLOQ 0.02 0.20 0.02 0.02 0.02 0.02 0.02 0.0	08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26 08/17/10 20:26	08/18/10 08/18/10 08/18/10 08/18/10 08/18/10 08/18/10 08/18/10	RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA RHH-SA

REMARKS:

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- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- LFB % Recovery below acceptance limits. The result may be biased low.

MANAGER	Carri	M. Davis	DATE:	8/19/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10082687

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10082687

PAGE:

2 of 2

PO#:

PWS ID#

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

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DATE: 08/10/2010 15:33

TEST REPORT

Page 2 of 2

Vinyl chloride < 0.02 mg/L EPA 8260B 0.02 08/17/10 20:26 08/18/10 RHH-SA

REMARKS:

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LFB % Recovery below acceptance limits. The result may be biased low.

MANAGER	Carry	M. Davis	DA	ATE:	8/19/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10082689

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

PHONE:

FAX:

Steve Gridley

(607) 562-4000

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr ADDRESS:

Horseheads, NY 14845

TEST REPORT

WO#: PAGE:

1 of 2

10082689

PO#:

PWS ID#

(607) 562-4001 Relog of 10081716-001

RECEIVED FOR LAB BY: DLM2

DATE: 08/10/2010 15:33

Page 1 of 2

SAMPLE: TCLP Leachate of Inv. Cutting	gs	Lab ID:	10082689-001B	Grab			
SAMPLED BY: SG	_	Sample Time:	08/17/2010 8:15				
Toot	Result		Method	<u>SLOQ</u>	Analysis Start	Analysis End	A naturat *
<u>Test</u> Pyridine	< 0.10 mg/L		<u>Metriod</u> EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
•	ŭ			0.10	08/18/10 15:52	08/18/10	
1,4-Dichlorobenzene	< 0.10 mg/L		EPA 8270C				RHH-SA
o-Cresol	< 0.10 mg/L	s	EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	3	EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachloroethane	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Nitrobenzene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L		EPA 8270C	0.50	08/18/10 15:52	08/18/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L		EPA 8270C	0.10	08/18/10 15:52	08/18/10	RHH-SA
SAMPLE: ZHE Extract of Inv. Cuttings		Lab ID:	10082689-001C	Grab			
SAMPLED BY: SG		Sample Time:	08/17/2010 8:15				
Tool	Dogult		Method	SLOQ	Analysis Start	Analysis End	Analyst*
<u>Test</u>	Result < 0.02 mg/L		Method EPA 8260B	0.02	Analysis Start 08/17/10 20:26	Analysis End 08/18/10	
Benzene	•						RHH-SA
2-Butanone	< 0.20 mg/L		EPA 8260B	0.20	08/17/10 20:26	08/18/10	RHH-SA
Carbon tetrachloride	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
Chlorobenzene	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
Chloroform	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
1,4-Dichlorobenzene	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
1,2-Dichloroethane	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
1,1-Dichloroethene	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
Trichloroethene	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA
Tetrachloroethene	< 0.02 mg/L		EPA 8260B	0.02	08/17/10 20:26	08/18/10	RHH-SA

REMARKS:

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- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

MANAGER	Carri	M. Davis	DATE:	8/19/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10082689

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

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COMPANY: Talisman Energy USA, Inc.

Horseheads, NY 14845

337 Daniel Zenker Dr

WO#:

10082689

PAGE:

2 of 2

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(607) 562-4001

TEST REPORT

PWS ID#

Relog of 10081716-001

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DATE: 08/10/2010 15:33

Page 2 of 2

EPA 8260B < 0.02 mg/L Vinyl chloride 0.02 08/17/10 20:26 08/18/10 RHH-SA

REMARKS:

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- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

MANAGER	Curi M. Davis	DATE:	8/19/2010	
		-		-



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the spaces d sheet as Form 26R,	tely completed. All requi provided. If additional sp reference the item numb is needs to match the date	ace is necessary, ider er and identify the o	tify Date	Received & G	The state of the s
Genera	al Refe	rence 287.54					
Date P	repare	d/Revised Feb	ruary 11, 2011				
		SECTION A.	CLIENT GENERATOR	OF THE WASTE) I	NFORMAT	ION	
	any Nar						
		ergy USA Inc.				504.0	
		y, Name of Parent Comp ergy Inc.	any			EPA Gene N/A	rator ID#
Compa	anv Mai	iling Address Line 1	C	ompany Mailing Addre	ss Line 2	19/7	
	-	d Place		pyg			
		dress Last Line – City	State	Zip+4	Phone		Ext
Warre			PA	15086	(724) 8	14-5300	
	-	ntact Last Name	First Name Dina	MI		Suffix	
Brown Munici				County			******
Warre				Allegheny			
	t Phon	e Ext	Contact Email Address				
	814-53		dybrown@talismanusa.c				
Is the v	waste g	enerated at the Compan	y Mailing Address (noted a	above)?		Yes	⊠ No
If 'No',	descrii	be location of waste general	eration and storage. Drill of ite located at 909 Newell Ro	uttings are generated d	uring natural g	as drilling or	perations at
	ers on s		ite located at 909 Newell Ro	ad, Canton Township, i	Sradiord Count	ıy, PA. vvas	te is stored in
Munici		Canton	County Bradfo	ord	Stat	e PA	
		Odillon	Drault				
			SECTION B. WAST				
Resid	dual	Residu	SECTION B. WAST	E DESCRIPTION	Unit of		Time
Resid Waste	dual	Residu	SECTION B. WAST		Measure	e	Time Frame
	dual	Residu	SECTION B. WAST al Waste escription	E DESCRIPTION	Measure	e] gal	Frame
Waste	dual	Residu Code De	SECTION B. WAST al Waste escription as)	Amount 6,211	Measure	e	
Waste	dual	Residu Code Do Drill cuttings (oil and g	SECTION B. WAST al Waste escription as) 1. GENERAL P	Amount 6,211 ROPERTIES	Measure cu yd b	e] gal	Frame
Waste 810	dual Code pH Ra	Residu Code Do Drill cuttings (oil and g	SECTION B. WAST al Waste escription as) 1. GENERAL P	Amount 6,211 ROPERTIES (based on analyses or lease)	Measure cu yd b	e] gal	Frame
Waste 810 a.	dual Code pH Ra	Residu Code Do Drill cuttings (oil and g	SECTION B. WAST all Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909	Amount 6,211 ROPERTIES (based on analyses or lithod 9095) 95)	Measure cu yd b	e] gal	Frame
810 a. b.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g nge 7.9	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 908 Gas (ambient temperat	Amount 6,211 ROPERTIES (based on analyses or both od 9095) 95) ture & pressure)	Measure ☐ cu yd ☐ ☐ lb ☑ knowledge)	gal	Frame One Time
Waste 810 a.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat	Amount 6,211 ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure) Oddo	Measure cu yd lb knowledge)	e] gal	Frame One Time
810 a. b.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g nge 7.9	SECTION B. WAST all Waste escription as) 1 GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid	Amount 6,211 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd I Phases of Separation	Measure cuyd lb showledge) Crafthy/Solution	gal gal ston stone	Frame One Time
810 a. b.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g nge 7.9	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat	Amount 6,211 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd I Phases of Separation	Measure cuyd lb showledge) Crafthy/Solution	gal gal ston stone	Frame One Time
810 a. b.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g nge 7.9	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of se	Amount 6,211 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Ode I Phases of Separation eparation. Soil and Re	Measure cuyd lb showledge) Crafthy/Solution	gal gal ston stone	Frame One Time
810 a. b.	dual Code pH Ra Physic	Residu Code Do Drill cuttings (oil and g nge 7.9 cal State	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so	Amount 6,211 ROPERTIES (based on analyses or lethod 9095) 65) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro	Measure Cuyd Dib Conowledge) Por Earthy/S Cone Cock Fragment	gal gal don D	Frame One Time
810 a. b.	dual Code pH Ra Physic Physic	Residu Code De Code De Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemictions, is attached.	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS cal characterization of the	Amount 6,211 ROPERTIES (based on analyses or lethod 9095) 25) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro is ATTACHMENTS waste, as described in	Measure Cuyd Dib Conowledge) Por Earthy/S Cone Cock Fragment	gal gal ston stone	Frame One Time
810 a. b.	dual Code pH Ra Physic Physic	Residu Code Do Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemictions, is attached. illed description of the w	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS cal characterization of the aste sampling method is a	Amount 6,211 ROPERTIES (based on analyses or letthod 9095) 25) ture & pressure) Odd Phases of Separation eparation. Soil and Ro is ATTACHMENTS waste, as described i	Measure cu yd bloom chowledge) Dr Earthy/S Done Dock Fragment n the	gal gal ston ston ston ston ston ston ston ston	Frame One Time Ileum No
### 810	dual Code pH Ra Physic Physic The re instruct A deta	Residu Code De Code De Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemications, is attached. illed description of the wallity assurance/quality of	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS cal characterization of the	Amount 6,211 ROPERTIES (based on analyses or letthod 9095) 25) ture & pressure) Odd Phases of Separation eparation. Soil and Ro is ATTACHMENTS waste, as described i	Measure cu yd bloom chowledge) Dr Earthy/S Done Dock Fragment n the	gal gal ston stone state	One Time Oleum
### Reference	pH Ra Physic Physic The re instruct A deta The quattach	Residu Code Do Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemications, is attached. illed description of the wallity assurance/quality of ed.	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS cal characterization of the aste sampling method is a	Amount 6,211 ROPERTIES (based on analyses or letthod 9095) 25) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro its ATTACHMENTS waste, as described i	Measure cu yd bloom chowledge) Dr Earthy/S Done Dock Fragment n the	gal gal Glight Petro	Prame One Time Oleum No No No
### 810	pH Ra Physic The re instruct A deta The quattach The re	Residu Code Do Code Do Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemications, is attached. illed description of the wallity assurance/quality of ed. sults of the hazardous w	SECTION B. WAST al Waste escription as) 1. GENERAL P 1 to 9.58 Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS cal characterization of the aste sampling method is a	Amount 6,211 ROPERTIES: (based on analyses or letthod 9095) (b) (b) (ture & pressure) Odd I Phases of Separation eparation. Soil and Ro (sis ATTACHMENTS) waste, as described in ttached. (red by the laboratory)	Measure cu yd bloom chowledge) Dr Earthy/S Done Dock Fragment n the	gal gal ston ston ston ston ston ston ston ston	Frame One Time Ileum No

W. 700	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	CHMENTS		10.21			
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No			
b.	b. A schematic of the manufacturing and/or pollution control processes producing the waste, Signal No as specified in the instructions, is attached.								
C.	c. If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.								
	SECTI	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE					
11111111111			DISPOSAL FACILITY(IE	The second secon		3.3			
The ar	rea below (ad.) will accommod	date the identification of	two facilities. Attach	additional sheets	if necessary	7.			
а.	Solid waste permit number(s 9-0232-00003) for processing or dispo	sal facility being util	ized.					
b.	Facility Name	Hyland Landfill							
	Address Line 1	6653 Herdman Road							
	Address Line 1								
	Address City State ZIP	Angelica	NY	14709					
	Municipality	Angelica	County	Allegany					
C.	Facility Contact Name	Larry Shilling							
	Title					_			
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com				
d.	Volume of waste shipped to p] cu yd 🔲 gal	☐ lb ⊠ ton	(check one)					
d. a.] cu yd 🔲 gal	☐ lb ⊠ ton	(check one)	-				
	2,875 Solid waste permit number(s] cu yd 🔲 gal	☐ lb ⊠ ton	(check one)					
a.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1	cu yd gal for processing or dispo	□ lb ☑ ton	(check one)					
a.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1 Address Line 1	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge	□ lb ⊠ ton sal facility being utili	ized.					
a.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address City State ZIP	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post	□ lb ☑ ton sal facility being utili Road NY	ized. 14870					
a.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge	□ lb ⊠ ton sal facility being utili	ized.					
a.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post	□ lb ☑ ton sal facility being utili Road NY	ized. 14870					
a. b.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	cu yd gal) for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles	Road NY County	ized. 14870 Steuben					
a. b.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	cu yd gal) for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271	Road NY County Email Address	(check one) ized. 14870 Steuben joe.boyles@case					
a. b.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p	cu yd gal) for processing or dispose Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal factors	Road NY County Email Address acility in the previous	14870 Steuben joe.boyles@case	ella.com				
a. b. c.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	cu yd gal for processing or disposition Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal faculyd gal	Road NY County Email Address acility in the previous	14870 Steuben joe.boyles@case	ella.com				
a. b.	2,875 Solid waste permit number(s 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p 2,176	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal facu yd gal	Road NY County Email Address acility in the previous	14870 Steuben joe.boyles@case	ella.com				
a. b. c.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p 2,176 Has the waste been approved	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal fal cu yd gal 2. BENE	Ib Ib Ion Ion	14870 Steuben joe.boyles@case	ella.com	No No			
a. b. c.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p 2,176 Has the waste been approved If "Yes", list the general permits	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal fal cu yd gal 2. BENE I for beneficial use?	Ib Ib Ion Ion	14870 Steuben joe.boyles@case	ella.com	No No			
a. b. c.	2,875 Solid waste permit number(s) 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to p 2,176 Has the waste been approved	cu yd gal for processing or dispo Hakes C&D Landfill 4376 Manning Ridge Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 processing or disposal fal cu yd gal 2. BENE I for beneficial use?	Ib Ib Ion Ion	(check one) ized. 14870 Steuben joe.boyles@case s year. (check one)	ella.com	No			

		3. Process Descriptio	N & SCHEMATIC ATTA	CHMENTS		
a.	A detailed description of the the waste, as specified in t			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct		control processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as o			on for 🔲 Yes	☐ No	⊠ N/A
	SECT	TION C. MANAGEN	MENT OF RESIDU	JAL WASTE		
		1. PROCESSING OF	DISPOSAL FACILITY(II	ES)		
The ar	rea below (ad.) will accomm	odate the identification of	f two facilities. Attacl	h additional sheets	if necessary	<i>'</i> .
a.	Solid waste permit number 8-0728-00004	(s) for processing or disp	osal facility being uti	lized.		
b.	Facility Name	Chemung County La	andfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
	Address City State ZIP	Elmira	NY	14903		
	Municipality	Elmira	County	Chemung		
C.	Facility Contact Name	Carla Canjar				
ĺ	Title	Environmental Mana				
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com	
d.	Volume of waste shipped to 610	cu yd gal	☐ lb tor	n (check one)		
a.	Solid waste permit number 100361	(s) for processing or disp	osal facility being util	lized.		
b.	Facility Name	McKean County Lar	dfill			
i	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				
	Title					
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped to 550	processing or disposal cu yd gal	facility in the previous			
			EFICIAL USE			
a.	Has the waste been approv	ed for beneficial use?	· · · · · · · · · · · · · · · · · · ·		Yes	⊠ No
	If "Yes", list the general per					
b.	Volume of waste beneficial	y used in the previous ye	ear.	n (check one)		
L						

Dina Brown

Signature

SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title **Environmental Specialist**

Date

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

(607) 562-4001

Horseheads, NY 14845

(607) 562-4000 TEST REPORT

WO#:

10081720

Work Order: 10081720

PAGE:

1 of 2

PO#: AF76723

PWS ID#

Harvest Holdings

PHONE:

FAX:

RECEIVED FOR LAB BY: DLM2 DATE: 08/10/2010 15:33 Page 1 of 2

RECEIVED FOR LAB BY. DLIVIZ	DATE.	00/10/2010 15:33	_		P	age 1 of 2
SAMPLE: Air Cuttings	L	ab ID: 10081720-001A	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 16:00	01.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	272 mg/Kg	EPA 9071		08/12/10 11:10	08/12/10	
Sample Note: Analysis performe	d by Microbac-Erie					
SAMPLE: Air Cuttings		ab ID: 10081720-001B	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 16:00				
	.		<u>SLOQ</u>			
<u>Test</u>	Result	Method	0.04	Analysis Start	Analysis End	
Moisture	17.0 %	Moisture Calc.	0.01	08/12/10 8:45	08/13/10	MED-SA
Free Liquid	2.6 %	EPA 9095A	0.1	08/12/10 15:10	08/12/10	RHN-SA
рН	8.63@21.7°C	EPA 9045C		08/12/10 15:42	08/12/10	MED-SA
SAMPLE: Air Cuttings	L	ab ID: 10081720-001C	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 16:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Sodium	< 556 mg/Kg-dry	EPA 6010B	556	08/13/10 9:40	08/13/10	RMD-CV
Chloride	402 mg/Kg-dry	EPA 300.0	60.2	08/11/10 14:31	08/12/10	HDP-CV
Percent Moisture	17.0 %	SM2540G		08/12/10 8:45	08/13/10	MED-SA
SAMPLE: TCLP Leachate of Air Cu	uttings L	ab ID: 10081720-001E	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 16:00				
T	D H	N A = A b = - A	<u>SLOQ</u>	Ameliate Office	A	A l . (+
Test	Result	<u>Method</u> EPA 7470A	0.0008	Analysis Start 08/12/10 8:30	Analysis End	
Mercury - TCLP extracted	< 0.0008 mg/L				08/13/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/13/10 7:20	08/13/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7;20	08/13/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie M Davis	DATE:	8/13/2010
	90000 11: 0-1-		

^{*} CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

L Value above calibration range but within annually verified linear range

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081720

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

ADDRESS:

Steve Gridley NAME:

COMPANY: Talisman Energy USA, Inc.

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081720

PAGE:

2 of 2

PO#:

AF76723

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

Harvest Holdings

RECEIVED FOR LAB BY: DLM2

DATE: 08/10/2010 15:33

TEST REPORT

Page 2 of 2

							0
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Zinc - TCLP extracted	28.6 mg/L	L	EPA 6010B	0.200	08/13/10 7:20	08/13/10	RMD-CV

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Value above calibration range but within annually verified linear range

	//		
MANAGER	Carrie M. Davis	DATE:	8/13/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110477

10110477

1 of 1

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#: PAGE:

PO#: AF 76719

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

Harvest Holdings

RECEIVED FOR LAB BY: RML DATE: 11/03/2010 12:36 Page 1 of 1

Lab ID: 10110477-001A Composite SAMPLE: Pad Soil SAMPLED BY: SG Sample Time: 11/03/2010 10:45 SLOQ Result Analyst * Test Method Analysis Start Analysis End Specific Conductance 4130 µmho/cm@25°C SM2510B 1.0 11/04/10 11:00 11/04/10 IC-SA pΗ 7.87@23.4°C **EPA 9045C** 11/04/10 15:32 11/04/10 SG-SA **Total Dissolved Solids** 14300 mg/kg SM2540C 10 11/03/10 10:00 11/03/10 NFM-SA Lab ID: 10110477-001B Composite SAMPLE: Pad Soil SAMPLED BY: SG Sample Time: 11/03/2010 10:45 SLOQ Method Analysis Start Analysis End Analyst* Test Result MS **EPA 6010B** 273 11/04/10 7:50 11/04/10 Sodium < 273 mg/Kg RMD-CV Chloride 105 mg/Kg EPA 300.0 50.0 11/03/10 14:32 11/04/10 HDP-CV Lab ID: 10110477-001C SAMPLE: Pad Soil Composite SAMPLED BY: SG Sample Time: 11/03/2010 10:45 SLOQ <u>Test</u> Result Method Analysis Start Analysis End Analyst* Total Petroleum Hydrocarbons 193 mg/Kg **EPA 9071** 193 11/04/10 14:30 11/04/10 Sample Note: Analysis performed by Microbac Laboratories, Inc-Erie Division.

REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MS Limit of detection increased due to matrix interference and spike recovery data

Value exceeds Maximum Contaminant Level X

	/ /	- ·		
MANAGER	Carrie	M. Davis	DATE:	11/5/2010
	~~~~	- P P ( )		

CHAIN OF CUSTODY		t	<b>5</b>	PAGEIUFI
report to: 'Talisman / UEG		2566 P	Pe 14004 40440477	
geowetlands@aol.com			° W/O#: 10110477	ARE SPECIAL DETECTION LIMITS
twollin@rallysolutions.ca	REFRIGERATE SAMPLES			NEEDED: YES /7/NO
two milestany solutions.cu	AFTER COLLECTION	1 6	RESULTS ARE BEING USED FOR:  W DRINKING WATER SL SLUDGE NYDOH NYDEC PADEF	IF YES, PLEASE ATTACH
CONTACT		G	W GROUND WATER SO SOIL	1
CONTACT Steve Gridley	TRANSPORT	1 / "	W WASTE WATER OTHER	YES 7NO
PH# 607-731-0145	TO LABORATORY	/ / ^{DI}	E DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER  W / / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	IN COOLER	/ / §	/ / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID	/ <i>[\}</i>
BILL TO: Talisman	WITH ICE		/ N NITRIC ACID AC ACETIC ACID SO 3 SODIUM SULFITE NH, AMMONIUM CHLORIDE /	
PO# AF 76719	<del></del>	/ g/	Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE	
PROJECT DESCRIPTION		/ 8 / s	An Incomplete chain of custody may delay the	Please fill out all
SAMPLER SIGNATURE / AFFILIATION	DATE SAMPLED TIME OF SAMPLIN SAMPLE WATERY		An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	applicable areas completely
wer wer	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ /
CONTAINED SAMPLING POINT	DATE SAMPLES SAMPLE WATER WATE	SAMPLER WILLY	SO ₃ SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE  An Incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
1 West Spill Soil Pad Soil	1/3 R45 50 C 5	8 N		-001A
2			pH, Chlorides, Sodium Projst	1 6
3			Salinity	
4			TPH	ψ ε
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9			24 HOUR TURNAROUND	
10			DAY TURNAROUND	
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LAE USE ONLY PO 6		<u> </u>	The second of th	K TO THE RESERVE TO T
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RELINQUISHED BY	DATE:	TIME	36 RECEIVED BY:	DATE: TIME:
RECTNQUISHED BY:	1/ 13 10 DATE:	TIME:	RECEIVED BY:	DATE: TIME:
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				Ad Graphics Printing 570-888-0885

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10071880

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10071880

PAGE:

1 of 1

PO#:

AF76719

PWS ID#

0.200 07/16/10 15:00

07/17/10

RMD-CV

PHONE: FAX:

(607) 562-4000

(607) 562-4001

Harvest Hldgs Well

**TEST REPORT** 

RECEIVED FOR LAB BY: WCB	DATE	: 07/13/2010 13:15			P	age 1 of 1
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Sam	Lab ID: 10071880-001A ple Time: 07/12/2010 12:45	Grab SLOQ			
<u>Test</u> Total Petroleum Hydrocarbons	<u>Result</u> 16300 mg/Kg	Method EPA 9071	<u>OLO Q</u>	Analysis Start 07/15/10 0:00	Analysis End 07/15/10	Analyst *
Sample Note: Analysis performed b	y Microbac-Erie					
SAMPLE: Inv. Cuttings		Lab ID: 10071880-001B	Grab			
SAMPLED BY: SG	Sam	ple Time: 07/12/2010 12:45	SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	
Moisture	31.7 %	Moisture Calc.	0.01	07/14/10 14:30	07/15/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/14/10 8:35	07/14/10	IC-SA
рН	9.58@22.2°C	EPA 9045C		07/14/10 12:23	07/14/10	DLM-SA
SAMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10071880-001D	Grab			
SAMPLED BY: SG	Sam	ple Time: 07/12/2010 12:45	SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	07/16/10 9:00	07/18/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/16/10 15:00	07/17/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV

## **REMARKS:**

Zinc - TCLP extracted

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

EPA 6010B

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

29.4 mg/L

Value above calibration range but within annually verified linear range

MANAGER	Carri M. Z	DATE:	7/20/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110480

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

COMPANY:

ADDRESS:

NAME: Steve Gridley

Talisman Energy USA, Inc.

PAGE:

1 of 1

337 Daniel Zenker Dr

PO#:

WO#:

AF76719

10110480

Horseheads, NY 14845

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

Harvest Holdings-cu

**Test** 

RECEIVED FOR LAB BY: RML

Total Petroleum Hydrocarbons

DATE: 11/03/2010 12:36

**TEST REPORT** 

Page 1 of 1

SAMPLE: Invert Lab ID: 10110480-001A Grab SAMPLED BY: SG

Result

230 mg/Kg

Sample Time: 11/03/2010 10:45

Method

EPA 9071

SLOQ

0.200 11/04/10 14:05

11/04/10

RMD-CV

**Analysis Start** Analysis End Analyst * 11/04/10 14:30 11/04/10

Sample Note: Analysis performed by Microbac Laboratories, Inc-Erie Division.

Lab ID: 10110480-001B SAMPLE: Invert Grab

SAMPLED BY: SG Sample Time: 11/03/2010 10:45

SLOQ <u>Test</u> Result Method Analysis Start Analysis End Analyst * 8.02 % 0.01 11/03/10 14:45 11/04/10 IC-SA Moisture Moisture Calc. Free Liquid **EPA 9095A** 11/03/10 14:30 IC-SA < 0.1 % 0.1 11/03/10 **EPA 9045C** 11/04/10 15:32 SG-SA 7.91@23.4°C 11/04/10 pΗ

SAMPLE: TCLP Leachate of Invert SAMPLED BY: SG

Lab ID: 10110480-001D Sample Time: 11/04/2010 7:30

SLOQ Method **Analysis Start** Analysis End Analyst * Test Result Mercury - TCLP extracted < 0.0008 mg/L **EPA 7470A** 0.0008 11/04/10 13:15 11/04/10 RMD-CV Arsenic - TCLP extracted **EPA 6010B** < 0.500 mg/L 0.500 11/04/10 14:05 11/04/10 RMD-CV Barium - TCLP extracted < 10,00 mg/L **EPA 6010B** 10.00 11/04/10 14:05 11/04/10 RMD-CV Cadmium - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 11/04/10 14:05 11/04/10 RMD-CV Chromium - TCLP extracted < 0:500 mg/L **EPA 6010B** 0.500 11/04/10 14:05 11/04/10 RMD-CV 11/04/10 < 0.100 mg/L Copper - TCLP extracted **EPA 6010B** 0.100 11/04/10 14:05 RMD-CV < 0.500 mg/L Lead - TCLP extracted **EPA 6010B** 0.500 11/04/10 14:05 11/04/10 RMD-CV Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 11/04/10 14:05 11/04/10 RMD-CV Selenium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 11/04/10 14:05 11/04/10 RMD-CV 11/04/10 14:05 11/04/10 Silver - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 RMD-CV

**EPA 6010B** 

#### **REMARKS:**

Zinc - TCLP extracted

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.200 mg/L

MANAGER DATE: 11/5/2010	
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•								
CHAIN OF CUSTODY	•						PAGE 1	OF1
REPORT TO: Talisman / UEG	İ				,	566 F		
geowetlands@aol.com					4	1 000	<b>VV/O#: 10110480</b> ARE SPECIAL DE	
twollin@rallysolutions.ca		DIOPER	ATE O	A LATH T		٠	NEEDED: TYES	
twomine rany solutions.ca		RIGER ER CO			-5	ſ.	RESULTS ARE BEING USED FOR: IF YES, PLEASE WE DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP IS A OC PA	
DOLLER OF						/ 6	W GROUND WATER SO SOIL	CKAGE NEEDED?
CONTACT Steve Gridley	] 1	TRANS	PORT	ı		/ v	W WASTE WATER OTHER	S <b>☑</b> NO
PH# 607-731-0145		T ABOR		,		, L	E DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER IFYES, PLEASE A	TACH REQUIREMENT:
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The Palishan	}	HTIW,	I ICE	. /		/ 🐉 /	N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE	
PO# AF 767/9		$\overline{}$	7.	$\mathcal{J}$		8	This SODIUM THIOSULFATE ZN ZINC ACETATE  - NONE Hg MERCURIC CHLORIDE	
PROJECT DESCRIPTION Honors Cu		/8	\\ \$\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilie{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde{\tilde	<b>1</b>	140		An Incomplete chain of custody may detay the	ease fill out all , , plicable areas
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2	10	100	-			1	рН	8
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4		<del>                                     </del>			<del> </del>	<del>                                     </del>	Free Liquids / % Moisture	В
5	<del>                                     </del>	<u> </u>	† · · · · ·			1		
6							TCLP 8260 / 8270 ONLY IF the TPH	
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### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

## FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

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		rence 287.54						
Date P	Prepare		bruary 11, 2011			**************************************	and the second	
			CLIENT (GENERATO	R OF THE WASTE) I	<u>NFORM</u>	ATION		
	any Nai	me ergy USA Inc.						
		y, Name of Parent Com	pany		•	EPA (	Gener	ator ID#
Talism	nan End	ergy Inc.	-			N/A	_	
50 Pe	nnwood	iling Address Line 1 d Place	C	Company Mailing Addr	ess Line 2			
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Warre			PA PA	15086	(724	1) 814-530		
Compa Brown	-	ntact Last Name	<b>First Name</b> Dina	MI		Suffix	(	
Munici			<del></del>	County				
Warre				Allegheny				
Contac	ct Phon	e Ext	Contact Email Address					
	814-53		dybrown@talismanusa.					
			ny Mailing Address (noted				Yes	⊠ No
the	(01		neration and storage. Drilled at 13766 Route 14, Canto					
on site.		Canton	County Bradf	ord		State	PA	
			SECTION B. WAST		Į.			
Resi	dual	Resid	ual Waste		CT THE PROPERTY OF THE PROPERT	it of	<u> </u>	Time
Waste	Code	Code D	Accrintion	Amount	Mea	sure		Frame
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		Drill cuttings (oil and		3,382	☐ cu yd			One Time
a.	pH Ra	nge 8.9	gas) 1. <b>General</b> F to 11.3	3,382 PROPERTIES (based on analyses or	☐ cu yd ☐ lb	⊠ ton		One Time
a. b.			gas)  1. GENERAL F  1. GENERAL F  1. GENERAL F  1. GENERAL F  2. Itiquid Waste (EPA Method 90  Solid (EPA Method 90	3,382 PROPERTIES (based on analyses or ethod 9095) 195)	☐ cu yd ☐ lb	⊠ ton		One Time
b.	Physic	nge 8.9 cal State	to 11.3 Liquid Waste (EPA Method 90 Gas (ambient tempera	3,382 PROPERTIES (based on analyses or ethod 9095) 1955) ature & pressure)	☐ cu yd ☐ lb knowledge	⊠ ton		
	Physic	nge 8.9	1. GENERAL F to 11.3 Liquid Waste (EPA Method 90 Gas (ambient tempera	3,382 PROPERTIES (based on analyses or ethod 9095) 195) ature & pressure)	cu yd lb knowledge	ion (ion) ton (	etrole	
b.	Physic	nge 8.9 cal State	to 11.3 Liquid Waste (EPA Method 90) Solid (EPA Method 90) Gas (ambient temperator) Color Greyish Black	3,382 PROPERTIES (based on analyses or ethod 9095) 195) ature & pressure) Odd Phases of Separatio	cu yd lb knowledge  or Eart n One	ton  ton  hy/slight p	etrole	
b.	Physic	nge 8.9 cal State	1. GENERAL F to 11.3 Liquid Waste (EPA Method 90 Gas (ambient tempera	3,382 PROPERTIES (based on analyses or ethod 9095) 195) ature & pressure) Odd Phases of Separatio	cu yd lb knowledge  or Eart n One	ton  ton  hy/slight p	etrole	
b.	Physic	nge 8.9 cal State	1. GENERAL F  2. GENERAL F  1.	3,382  PROPERTIES (based on analyses or ethod 9095) 195) ature & pressure) Cod d Phases of Separation Separation. Soil and R	cu yd lb knowledge  or Eart n One ock Fragn	ton  ton  hy/slight p	etrole	
b.	Physic Physic The re	nge 8.9 cal State cal Appearance sults of a detailed chemotions, is attached.	1. GENERAL F  1.	3,382  PROPERTIES (based on analyses or ethod 9095) (955) ature & pressure) COdd Phases of Separation Separation. Soil and R	cu yd lb knowledge  or Eart n One ock Fragn	⊠ ton ) hy/slight p nents	etrole	
b. c. a. b.	Physic Physic The re instruct A deta	nge 8.9 cal State cal Appearance sults of a detailed chemotions, is attached. illed description of the v	1. GENERAL F  1. JENERAL F  2. Solid (EPA Method 90  Gas (ambient temperal of Solid or Liquing or	3,382  PROPERTIES (based on analyses or ethod 9095) (955) (ature & pressure) (ature & pressure) (based on analyses or ethod 9095) (ature & pressure) (capacitation & Soil and Responsible of Separation & Soil and Responsible of Sis Attached.	cu yd lb knowledge  or Eart n One ock Fragn	hy/slight p	Yes Yes	eum  No
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15,600,000,000,000,000,000,000	3.	PROCESS DESCRIPTION &	SCHEMATIC ATTAC	CHMENTS		100
a.	A detailed description of the		ition control proce	esses producing		☐ No
1	the waste, as specified in the	instructions, is attached.				
b.	A schematic of the manufacti		rol processes proc	ducing the waste,		☐ No
	as specified in the instruction	s, is attached.				
C.	If portions of the information			n for Yes	No	⊠ N/A
	a confidentiality claim, as des	cribed in the instructions,	is attached.			
	SECTION	ON C. MANAGEMEN	NT OF RESIDU	JAL WASTE		
۶.		1. PROCESSING OR DIS	POSAL FACILITY (IE	ES)		
The ar	ea below (ad.) will accommod	ate the identification of tw	o facilities. Attach	additional sheets	if necessary	•
a.	Solid waste permit number(s)	for processing or disposa	I facility being util	ized.		
	101243					
b.	Facility Name	Northern Tier Solid Was	ste Authority - Bra	dford County		
	Address Line 1	108 Steam Hollow Road				
	Address Line 1					
	Address City State ZIP	Troy	PA	16947		
	Municipality	West Burlington Twp	County	Bradford		
c.	Facility Contact Name	Charles Woodward				
	Title	Recycling Coordinator				
	Phone	(570) 297-4177	Email Address	chuckwoodward(	@epix.net	
d.	Volume of waste shipped to p		lity in the previous	year.		
	1,227	cu yd 🔲 gal 📋	〗lb ⊠ ton	ı (check one)		
a.	Solid waste permit number(s)	for processing or disposa	l facility being util	ized.	<u> </u>	
a.	Solid waste permit number(s) 9-0232-00003	for processing or disposa	l facility being util	ized.		
a. b.			l facility being util	ized.		
	9-0232-00003	for processing or disposa  Hyland Landfill  6653 Herdman Road	l facility being util	ized.		
	9-0232-00003  Facility Name Address Line 1 Address Line 1	Hyland Landfill 6653 Herdman Road		ized.		
	9-0232-00003  Facility Name Address Line 1 Address City State ZIP	Hyland Landfill 6653 Herdman Road Angelica	NY	14709		
	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	Hyland Landfill 6653 Herdman Road				
	9-0232-00003  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name	Hyland Landfill 6653 Herdman Road Angelica	NY	14709		
b.	9-0232-00003  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling	NY County	14709 Allegany		
b.	9-0232-00003  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name	Hyland Landfill 6653 Herdman Road Angelica Angelica	NY	14709	sella.com	
b.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facil	NY County Email Address lity in the previous	14709 Allegany larry.shilling@cas	sella.com	
b.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271	NY County Email Address	14709 Allegany larry.shilling@cas	sella.com	
b.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 1,158	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facilicu yd gal	NY County  Email Address lity in the previous	14709 Allegany larry.shilling@cas	sella.com	
b. c.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facilicu yd gal	NY County  Email Address lity in the previous	14709 Allegany larry.shilling@cas		No No
b. c. d.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 1,158	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facil cu yd gal cu yd gal for beneficial use?	NY County  Email Address lity in the previous lb	14709 Allegany larry.shilling@cas		No
b. c. d.	9-0232-00003  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 1,158  Has the waste been approved If "Yes", list the general perm Volume of waste beneficially	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facil cu yd gal 2 BENEFIC for beneficial use? It number or approval numused in the previous year.	NY County  Email Address  lity in the previous lb  ton	14709 Allegany larry.shilling@cas		No
b.  c. d.	9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 1,158	Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facil cu yd gal cu yd gal for beneficial use?	NY County  Email Address lity in the previous lb	14709 Allegany larry.shilling@cas		No No

T-14-T-14-E-1	3	PROCESS DESCRIPTION &	R SCHEMATIC ATTAC	PUNENTO	100	
8000000	A detailed description of the				⊠ Yes	□No
а.	the waste, as specified in the	instructions, is attached	•		⊠ res	
b.	A schematic of the manufactor as specified in the instruction		ntrol processes proc	ducing the waste,	Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			n for 🔲 Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEME	NT OF RESIDU	JAL WASTE		
774		1. PROCESSING OR D	ISPOSAL FACILITY(IE	Es):		
The ar	ea below (ad.) will accommod	late the identification of t	wo facilities. Attach	additional sheets	if necessary	-
a.	Solid waste permit number(s) 8-0728-00004	for processing or dispos	sal facility being util	ized.		
b.	Facility Name	Chemung County Land	dfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
	Address City State ZIP	Elmira	NY	14903		***
	Municipality	Elmira	County	Chemung		
				Chemung		
C.	Facility Contact Name	Carla Canjar				
	Title	Environmental Manage				
	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com	
d.	Volume of waste shipped to p	rocessing or disposal fac	cility in the previous	vear.		
	889	cu yd gal	☐ lb 🛭 ton	(check one)		
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispos	al facility being utili	ized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge F	Road			
	Address Line 1					* ***
	Address City State ZIP	Painted Post	NY	14870		
	Municipality	Erwin Twp	County	Steuben	·	
C.	Facility Contact Name	Joseph Boyles	-			
	Title					
	Phone	(607) 937-6044	Email Address	joe.boyles@case	ella.com	
		(585) 466-7271				
d.	Volume of waste shipped to p					
	108	cu yd 🔲 gal	☐ lb      ton	(check one)		
		2. Bener	ICIAL USE			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general perm	it number or approval nu	mber.			
<del></del>						
b.	Volume of waste beneficially	used in the brevious vear				
b.	Volume of waste beneficially	used in the previous year cu yd gal	□ lb □ ton	(check one)		

	SECTION D. CERTIFICATION
Report and all attached docu obtaining the information, I v knowledge. I understand that	hat I have personally examined and am familiar with the information submitted in this Annual ments and that based upon my inquiry of those individuals immediately responsible for rerify that the submitted information is true, accurate and complete to the best of my the submission of false information herein is made subject to the penalties of 18 Pa. C.S. fication to authorities, which include fine and imprisonment.
Check the following, if applicat	le:
I certify the information and has not chan	required in Section B-1, General Properties was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
I certify the information and has not chan	required in Section B-2, Chemical Analysis was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
I certify the information if for the year and h	equired in Section B-3, Process Description and Schematic, was supplied to the Department as not changed.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
Name of Responsible Official	Title Environmental Specialist
Dina Brown Signature	5hm Date 2/25/11



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each a	or legik attache	ust be fully and accur oly printed in the space d sheet as Form 26R, e date on attached shee	pace is necessary, ident per and identify the d	Date Receiv	USE ONLY ed & General Notes	
Genera	al Refe	rence 287.54				
Date P	repare		bruary 11, 2011			
			CLIENT (GENERATOR	R OF THE WASTE) IN	IFORMATION.	
	any Nar	ne ergy USA Inc.				
		y, Name of Parent Com	pany		EPA	Generator ID#
Talism	an Ene	ergy Inc.	· · · · · · · · · · · · · · · · · · ·		N/A	
		ling Address Line 1	С	ompany Mailing Addres	ss Line 2	
		d Place dress Last Line – City	State	Zip+4	Phone	Ext
Warre	-	arcoo East Emic Oity	PA	15086	(724) 814-53	
•	•	ntact Last Name	First Name	MI	Suff	x
Brown Munici			Dina	County		
Warre				Allegheny		
	t Phon	e Ext	Contact Email Address			······································
	<u>314-53</u>		dybrown@talismanusa.c			
			ny Mailing Address (noted a neration and storage. Drill o		Ling patural gas dril	Yes No
the			ed at 720 Knights Drive, Troy			
1,						
on site.			0		Ct-t-	D.4
on site. <b>Munici</b>		Troy	County Bradfo		State	PA ·
Munici	pality		SECTION B. WAST			
	pality dual	. Resid	,		State Unit of Measure	PA Time Frame
Munici Resid	pality dual	Resid Code I	SECTION B. WAST lual Waste Description	E DESCRIPTION	Unit of Measure □ cu yd □ gal	Time Frame
Munici Resid Waste	pality dual	. Resid	SECTION B. WAST ual Waste Description	Amount 673	Unit of Measure	Time
Munici Resid Waste	pality dual	Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description	Amount 673	Unit of Measure □ cu yd □ gal □ lb □ ⊠ ton	Time Frame
Resid Waste	pality dual Code pH Ra	Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 74 to 10.61  Liquid Waste (EPA Me	Amount 673  PROPERTIES (based on analyses or kethod 9095)	Unit of Measure □ cu yd □ gal □ lb □ ⊠ ton	Time Frame
Resid Waste 810	pality dual Code pH Ra	Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 74 to 10.61  Liquid Waste (EPA Method 90 Solid (EPA Method 90	Amount 673 PROPERTIES (based on analyses or kethod 9095) 95)	Unit of Measure □ cu yd □ gal □ lb □ ⊠ ton	Time Frame
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and nge 9.	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 74 to 10.61	Amount 673  PROPERTIES (based on analyses or kethod 9095) 95) uture & pressure)	Unit of Measure □ cu yd □ gal □ lb □ ton	Time Frame  One Time
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Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and nge 9.	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 74 to 10.61  Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 673 PROPERTIES (based on analyses or kethod 9095) 95) sture & pressure) Odo d Phases of Separation separation. Soil and Ro	Unit of Measure  cu yd gal lb Ston  nowledge)  r Earthy/slight One	Time Frame  One Time
Resid Waste 810 a. b.	pality dual Code  pH Ra Physic	Resid Code I Drill cuttings (oil and nge 9. cal State	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  74 to 10.61  Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 673 PROPERTIES (based on analyses or kethod 9095) 95) uture & pressure) Odo d Phases of Separation separation. Soil and Ro	Unit of Measure  □ cu yd □ gal □ lb □ ton  nowledge)  r Earthy/slight One ck Fragments	Time Frame One Time
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Resid Waste 810  a. b.	pality dual Code  pH Ra Physic  Physic  The re instruct A deta The qu	Resid Code I  Drill cuttings (oil and onge 9. cal State cal Appearance cal Appearance citions, is attached. calied description of the calied description of the cality assurance/quality	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  74 to 10.61  Liquid Waste (EPA Method 90  Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	Amount 673 PROPERTIES (based on analyses or kethod 9095) 95) Iture & pressure) Odo d Phases of Separation separation. Soil and Ro SIS ATTACHMENTS e waste, as described in	Unit of Measure  cuyd gal gal lb Son ton mowledge)  r Earthy/slight One ck Fragments	Time Frame One Time  petroleum  Yes No
Resident Waste 810  a. b.	pality dual Code  pH Ra Physic  Physic  The re instruct A deta  The qu attach	Resid Code I Drill cuttings (oil and  nge 9. cal State  cal Appearance  esults of a detailed cherections, is attached. hiled description of the vality assurance/quality ed.	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  74 to 10.61  Liquid Waste (EPA Method 90  Gas (ambient tempera  Color Greyish Black  Number of Solid or Liquid  Describe each phase of s  2. CHEMICAL ANALYS  nical characterization of the waste sampling method is a	Amount  673  PROPERTIES (based on analyses or kethod 9095) 95) Iture & pressure)  Odo d Phases of Separation separation. Soil and Ro sis ATTACHMENTS e waste, as described in attached. yed by the laboratory(in	Unit of Measure  cuyd gal gal lb Son ton mowledge)  r Earthy/slight One ck Fragments	Time Frame One Time  petroleum  Yes No

20.00		3. PROCESS DESCRIPTION			14.2	
a.	A detailed description of th the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instructi	ons, is attached.			Yes	☐ No
C.	If portions of the informatic a confidentiality claim, as d			n for Yes	□ No	⊠ N/A
	SECT	ION C. MANAGEM		THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO PE		
			DISPOSAL FACILITY(II			
The a	rea below (ad.) will accomm				if necessary	'-
a.	Solid waste permit number 101243	(s) for processing or dispo	osal facility being util	lized.		
b.	Facility Name	Northern Tier Solid V	Vaste Authority			
	Address Line 1	108 Steam Hollow Ro				
	Address Line 1					
	Address City State ZIP	Troy	PA	16947		
	Municipality	West Burlington Twp	County	Bradford		
C.	Facility Contact Name	Charles Woodward				
	Title					
	Phone	(570) 297-4177	Email Address	chuckwoodward(	@epix.net	
d.	Volume of waste shipped to 603	cu yd gal	☐ lb      tor	ı (check one)		
a.	Solid waste permit number 8-0728-00004	s) for processing or dispo	osal facility being util	ized.		
b.	Facility Name	Chemung County La	ndfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
	Address City State ZIP	Elmira	NY	14903		
	Municipality	Elmira	County	Chemung		
C.	Facility Contact Name	Carla Canjar				
	Title	Environmental Mana	ger			
	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com	
d.	Volume of waste shipped to	processing or disposal f	acility in the previous	s year.		
	70	cu yd gal	☐ lb      tor			
4.5			FICIAL USE			
a.	Has the waste been approve	ed for beneficial use?			Yes	⊠ No
	If "Yes", list the general per	mit number or approval n	umber.			
b.	Volume of waste beneficiall	y used in the previous yea ☐ cu yd ☐ gal	ar.	n (check one)		

Signature

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official **Environmental Specialist** Dina Brown





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

# **Certificate of Analysis**

Project Name:

Marcellus Shale

Purchase Order:

Workorder:

Workorder ID:

9814714

L2H Well Pad:INV+Cut.

Mr. Steve Gridley Fortuna 337 Daniel Zenker Drive Horseheads, NY 14845

October 23, 2009

Dear Mr. Gridley,

Enclosed are the analytical results for samples received by the laboratory on Wednesday. October 21, 2009

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

This laboratory report may not be reproduced, except in full, without the written approval of ALSI.

NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Phyllis, Accounts Payable

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken Laboratory Manager

Report ID: 9814714 Page 1 of 5





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### SAMPLE SUMMARY

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9814714001	L2H - Inv Cuttings Bin	Solid	10/20/09 13:20	10/21/09 09:15	Steve Gridley

#### Notes

- -- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.

#### Standard Acronyms/Flags

J. B indicates an estimated value between the Method Detection Limit (MDL) and the Practical Qualitation Limit (PQL) for the	J, B	Indicates an estimated value between the Method Detection Limit (Method Detect	MDL) and the Practical Quantitation Lim	it (PQL) for the analyt
------------------------------------------------------------------------------------------------------------------------------	------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------	-------------------------

U Indicates that the analyte was Not Detected (ND)

MDL Method Detection Limit
PQL Practical Quantitation Limit
RDL Reporting Detection Limit

ND Not Detected - indicates that the analyte was Not Detected at the RDL

Cntr Analysis was performed using this container

RegLmt Regulatory Limit

LCS Laboratory Control Sample

MS Matrix Spike

MSD Matrix Spike Duplicate
DUP Sample Duplicate
%Rec Percent Recovery

RPD Relative Percent Difference

Report ID: 9814714 Page 2 of 5





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541

#### **ANALYTICAL RESULTS**

Workorder: 9814714 L2H Well Pad:INV+Cut.

Date Collected: 10/20/2009 13:20 Matrix: Solid Lab ID: 9814714001

L2H - Inv Cuttings Bin Date Received: 10/21/2009 09:15 Sample ID:

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
PETROLEUM HC's										
Total Petroleum Hydrocarbons (TPH)	202000		mg/kg	16300	SW846 8015D	10/21/09	RSS	10/23/09 14:16	JJH	A1
WET CHEMISTRY										
Free Liquids	Negative				SW846 9095			10/22/09 12:15	SDL	Α
Moisture	18.8		%	0.1	SM20-2540 G			10/21/09 22:45	MBR	Α
рН	10.61	1,2	pH_Units		SW846 9045D			10/22/09 07 44	SAD	Α
Total Solids	81.2		%	0.1	SM20-2540 G			10/21/09 22:45	MBR	Α
CLP METALS										
Arsenic, Total	ND		mg/L	0.18	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	A3
Barium, Total	0.37		mg/L	0.22	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	А3
Cadmium, Total	0.16		mg/L	0.044	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	A3
Chromium, Total	ND		mg/L	0.12	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	Α3
Copper, Total	ND		mg/L	0.22	SVV846 6010C	10/23/09	MNP	10/23/09 12:07	TED	А3
Lead, Total	0.20		mg/L	0 13	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	A3
Mercury. Total	ND		mg/L	0.0020	SW846 7470A	10/23/09	BLB	10/23/09 11:04	BLB	A2
Nickel, Total	ND		mg/L	0 44	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	А3
Selenium, Total	ND		mg/L	0 44	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	А3
Silver, Total	ND		mg/L	0.088	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	A3
Zinc, Total	172		mg/L	0.44	SW846 6010C	10/23/09	MNP	10/23/09 12:07	TED	A3
CLP LEACHATE										
Extraction Fluid Used	2				SW846 1311			10/22/09 07:00	EL	Α
Final pH	5.28		pH_Units		SW846 1311			10/22/09 07:00	EL	Α
Preliminary pH after DI water	8.01		pH_Units		SW846 1311			10/22/09 07:00	EL	Α
Preliminary pH after HCl	5.01		pH Units		SW846 1311			10/22/09 07:00	EL	Α

#### Sample Comments:

Due to spectral interference from Zinc, this sample was diluted 1/20 for the 6010C metals analysis. The detection limits were raised accordingly. TED 10/23/09

This sample was analyzed at a dilution in the 8015 diesel range organics analysis due to the level of analyte detected. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

> amm mille Anna G Milliken

Laboratory Manager



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder 9814714

L2H Well Pad:INV+Cut.

#### PARAMETER QUALIFIERS\FLAGS

[1] The solid pH measured in water was 10.614 at 21.4 degrees C.

[2] Analyte was analyzed past the 24 hour holding time.

* G=Grab; C=Composite

WHITE - ORIGINAL

Copies:

# CHAIN OF CUSTODY/ REQUEST FOR ANALYSIS

ALI, SHADED AREAS MUST BE COMPLETED BY THE CLIENT!

Generated by AL



Pg. 1 of 1

I AN

34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 INC.

ACCREOTICO IN ACCORDAN

Rev 8/04

34 Dogwood Lane w Middletown, PA 17057 w 717.94	4.5541 w Fax 71	7,944.1430			5/	WFLLR	INSTR	UCTIO	IS ON T	HE BACI	Κ				/	
Client Name: Fortuna Energy Inc. (FEI)		3	Conta	hur Type	Glass	Glasa	Glass	Glass					1	Receip	ot information (completed by Receivin	g Lab)
Address: 337 Daniel Zenker Drive		5	Conta	iner Siso	4-oz	4-oz	4-0z	4-02						Cooler Tem	p: 6 Thenn 10: 51	02355
Horseheads, New York 14845	•	•	Pres	erratre	N	N	N	N						No. of Cooler	1:Y	M Initial
Contact: Sleve Gridley	7					A	VALYS	ESMET	HOD R	EQUES	TED			1	Custody Seels Present?	7.W
Phone#: 607-731-0145			П	(	16										(If present) State intact?	7
Project Name/#: 2K Well Pad: W	V + Cuttings		1 1		£						- 1				Received on Ice?	
Bill To: FEI: AF #73289			1 1		5. 3.	1		æ							COC/Labois Complete/Accurate?	
Normal-Standard TAT is 10-	12 business	days.	1 1		1.45	{		1 25			1	- 1			Cont. in Good Const.?	
TAT X Rush-Subject to ALSi appro	val and sure	harges.		,	31 ×	ľ		₹							Correct Containers?	
	pproved By:		1	\	443			38	}		<b>\</b>	- 1		1	Correct Sample Volumes?	
Email? X -Y geowetlands@eol.com	& see comm	ents	1		8.0	li		翼			j				Correct Preservation?	
Fax? Y No.:			1		Z .9			Free Liquids (% Moisture)	1			- 1		1	Headspace/Volatities?	77/
Sample Description/Location	Sample		8	Katrt	138 124 124 124 124 124 124 124 124 124 124	· E	五							CourienTraci	Wm # \$597 4333 6	956
(as it will appear on the tab report)	Date	Time	ğ	7				Contai	ners Per	Sample	or Fisio	Result	s Below.		Sample/COC Comments	
1 Knights L2H-Inv Cuttings-Bin	102009	1320	टि	so	X	X	X	X	Г					Drill Cu	ttings w residual oil-based dril	lino fiuld
2									5	402	- 301	<u>۔</u>				
3		48				-				M		216	A	IF TPH IS	120,000 mg/Kg - RUN EPA 82	60 &8270
4			T												WITH RUSH	
5																
6			I													
7			,													
8			L					L	L					<u> </u>		
9										<u> </u>				_ NEST TRA	Sampling of caup ocason  Sampling of catal Equipment	ocomposits.
10														oOti		
COMMENTS: Also Email Results to:		LOGGEDE	Yáslan	antina h		$\mathcal{T}$	\ <b>X</b>	7 -		4 .	21/09	il saul		+	Special Processing	State
twolin@rzilysolutions.ca & phylils@waynelwplandfill.com & kathymstron	o@eniv net		114	·····		<u> </u>	$\mathcal{U}\mathcal{U}$	11/2	1	3 (0)	4	= 1429	_ <b>3</b> ×   ×	Standard	Special Fred Config	
historikasi manakanonin vona a vantitusi on	Affahir'uar	REVIEWED	BYN	gruture):	: 7	$\mathcal{T}$	Ĵα			\$10	We	Ė	Data Deliverables	CLP-like	USACE	
		1			1	•	<i>_</i>	_	-		-	1		JSACE	Navy	NY NY
Belinquished By / Company Na		Date		Time	_		<del>`</del> _		my Nar	กะ	Date	Time				□ w .
Man Mall C	136-	102009	16	00	2 Fe	iex #85	978333	6956			1020	1600				X PA
3		L	上		4 1	<u> </u>	$N^{-}$	<u> </u>	AL	<u>51                                    </u>	opp109	0915		to PADEP?	Sample Disposal	∐NC_∠
5		<u></u>	丄		8								Yes X	. #237861	Lapp, X	
7					8								PWSID#	101243	Special	J*5#
9		1	T		10								EDDS: former	Tribe		` •

"Metrix - Al=Air; DW=Drinking Water, GW=Groundwater; OI=Oit; OL=Other Liquid; SL=Studge; SO=Soit; WP=Wipe; WW=Westewater

PINK - FILE

CANARY - CUSTOMER MAILING

GOLDENROD - CUSTOMER COPY





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

# **Certificate of Analysis**

Project Name:
---------------

Marcelius Shale

Workorder:

9815605

Purchase Order:

Workorder ID:

L2H

Mr Steve Gridley Fortuna 337 Daniel Zenker Drive Horseheads, NY 14845

October 29, 2009

Dear Mr Gridley,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, October 27, 2009

ALSI is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Denise Brooks (Project Coordinator) or Anna G Milliken (Laboratory Manager) at (717) 944-5541.

Please visit us at www.analyticallab.com for a listing of ALSI's NELAP accreditations and Scope of Work, as well as other links to Water Quality documentation on the internet.

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NOTE: ALSI has changed the report generation tool and while we have tried to retain the existing format, you will notice some changes in the laboratory report. Please feel free to contact ALSI in case you have any questions.

Analytical Laboratory Services, Inc.

CC: Phyllis

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken Laboratory Manager

Report ID: 9815605 Page 1 of 5



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### SAMPLE SUMMARY

Workorder: 98	L2H	444			Discard Date: 11/12/200		
Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By		
9815605001	Inv-Cuttings	Solid	10/26/09 10:15	10/27/09 09:30	Steve Gridley		

#### Workorder Comments:

#### Notes

- -- Samples collected by ALSI personnel are done so in accordance with the procedures set forth in the ALSI Field Sampling Plan (20 Field Services Sampling Plan)
- -- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- -- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- -- The Chain of Custody document is included as part of this report.

#### Standard Acronyms/Flags

J, B Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte

U Indicates that the analyte was Not Detected (ND)

MDL Method Detection Limit

PQL Practical Quantitation Limit
RDL Reporting Detection Limit

ND Not Detected - indicates that the analyte was Not Detected at the RDL

Cntr Analysis was performed using this container

RegLmt Regulatory Limit

LCS Laboratory Control Sample

MS Matrix Spike

MSD Matrix Spike Duplicate DUP Sample Duplicate

%Rec Percent Recovery

RPD Relative Percent Difference

Report ID: 9815605 Page 2 of 5





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### **ANALYTICAL RESULTS**

Workorder: 9815605

Lab ID:

9815605001

Date Collected: 10/26/2009 10:15

Matrix:

Solid

Sample ID: Inv-Cuttings Date Received: 10/27/2009 09:30

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
PETROLEUM HC's										
Total Petroleum Hydrocarbons (TPH)	176000		mg/kg	32300	SW846 8015D	10/28/09	GMG	10/28/09 21:21	KJH	B1
WET CHEMISTRY										
Moisture	18.5		%	0.1	SM20-2540 G			10/28/09 04:00	KMW	Α
рH	9.74	1,2	pH_Units		SW846 9045D			10/28/09 01:10	SAD	Α
Total Solids	81.5		%	0.1	SM20-2540 G			10/28/09 04:00	KMW	Α
TCLP METALS								•		
Arsenic, Total	ND		mg/L	0.0090	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Barium, Total	0.77		mg/L	0.011	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	<b>A</b> 1
Cadmium, Total	0.012		mg/L	0.0022	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Chromium, Total	ND		mg/L	0.0060	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Copper, Total	0.067		mg/L	0.011	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Lead, Total	0.055		mg/L	0.0067	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	10/29/09	BLB	10/29/09 12:42	BLB	A2
Nickel Total	0.18		mg/L	0.022	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Selenium Total	ND		mg/L	0.022	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	Α1
Silver, Total	ND		mg/L	0.0044	SW846 6010C	10/29/09	MNP	10/29/09 10:42	JWK	A1
Zinc. Total	12.9		mg/L	0.044	SW846 6010C	10/29/09	MNP	10/29/09 12:17	JWK	A1
CLP LEACHATE										
Extraction Fluid Used	1				SW846 1311			10/28/09 07:20	EL	Α
Final pH	5.94		pH_Units		SW846 1311			10/28/09 07:20	EL	Α
Preliminary pH after DI water	7.23		pH_Units		SW846 1311			10/28/09 07:20	EL	Α
Preliminary pH after HCI	1.84		pH Units		SW846 1311			10/28/09 07:20	EL	Α

#### Sample Comments:

EPA Methods require samples to be transported at 4 degrees centigrade. This can be accomplished by adding ice to the cooler before transporting to the lab. The temperature of this sample was above 4 degrees centigrade when received.

This sample was analyzed at a dilution in the 8015 diesel range organics analysis due to the level of analyte detected in the sample. Reporting limits were adjusted accordingly. Surrogate recovery could not be evaluated as a result of the dilution.

Laboratory Manager





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9815605

#### PARAMETER QUALIFIERS\FLAGS

[1] The solid pH measured in water was 9.739 at 19.9 degrees C.

[2] Analyte was analyzed past the 24 hour holding time.

G=Grab; C=Composite

Copies: WHITE - DRIGINAL CANARY - CUSTOMER COPY

#### CHAIN OF CUSTODY/ **REQUEST FOR ANALYSIS** ALL SHADED AREAS MUST BE COMPLETED BY THE



868373837707

CLIENT / SAMPLER. INSTRUCTIONS ON THE BACK. im, PA 17057 - 717,944,5541 + Pax: 717,944,1430 Receipt Information Phone: 607 731-0145 5620 Address: ANALYSES/METHOD REQUESTED Bill to presence than Report to: PO# Portuna Project Name/# ALŞI Quote #: nal-Standard TAT is 10-12 business days. Sarah-Subject to ALSI approval and surcharges. + geowetlands (o auli com TG Or C Sample Description/Location Military COC Comments Enter Number of Containers Per Analysis Date Time (Focus del est no scoops for it es) 10/26 1015 SAMPLED BY (Please Print): Steve Grafter 1012710911006 Standard ALSI FIELD SERVICES feres? Collected in? #0 <u></u> REVIEWED BY(signalage); CLP-like Received By / Company Name NJ-Reduced Relinquished By / Company Name Time Date 200 WEG 12 FELLEX# 868333837707 1066 10/26/69 1500 8 CENTR PWSIDED DOD Calteria Required?

"Manix: Al-Air; DW-Drinking Water; GW-Groundwater; Ci=OR; OL=Other Liquid; SL=Studge; SO>SoR; WP-WY-Wastowater

"Container Type: AQ-Amber Glass; CG-Clear Glass, PL-Playse, Container Stee: 250ml, 500ml, IL, Soz., etc., Preservative: HCl, HNO3, H2OH, etc.



# 34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 NALYTICAL ERVICES, INC. BORATORY

NELAP Accredited PA 22-293 NJ PAO10



Per 5/07





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

# **Certificate of Analysis**

Project Name:

Marcellus Shale

Workorder:

9816272

Purchase Order

Workorder ID:

L2H

Mr Steve Gridley Fortuna 337 Daniel Zenker Drive Horseheads, NY 14845

November 3, 2009

Dear Mr Gridley,

Enclosed are the analytical results for samples received by the laboratory on Tuesday, October 27, 2009

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Analytical Laboratory Services, Inc.

CC: Phyllis, Twolling, Ms. Kathy Murphy-Strong

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Anna G Milliken Laboratory Manager

Report ID: 9816272 Page 1 of 5



34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### SAMPLE SUMMARY

Workorder: 9	B16272 L2H				Discard Date: 11/17/200		
Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By		
9816272001	Inv - Cuttings	Solid	10/26/09 10 ⁻ 15	10/27/09 09:30	Customer		
Workorder	Comments:						

#### Notes

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- -- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141
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#### Standard Acronyms/Flags

J. B	Indicates an estimated	value between the i	Method Detection Lin	nit (MDL) and the P	ractical Quantitation Limit	(POL) for the analyte
J. D	mulcates on estimated	ANIOC DCIAACCLI THE	VICTOU DOLOGION EN	THE (IV) DE/ OFFICE LINE I	ractical Qualititation Limit	II GET TOT THE BUILDING

U Indicates that the analyte was Not Detected (ND)

MDL Method Detection Limit

PQL Practical Quantitation Limit

RDL Reporting Detection Limit

ND Not Detected - indicates that the analyte was Not Detected at the RDL

Cntr Analysis was performed using this container

RegLmt Regulatory Limit

LCS Laboratory Control Sample

MS Matrix Spike

MSD Matrix Spike Duplicate
DUP Sample Duplicate

%Rec Percent Recovery

RPD Relative Percent Difference

Report ID: 9816272 Page 2 of 5





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### **ANALYTICAL RESULTS**

Workorder: 9816272

Lab ID:

9816272001

Date Collected: 10/26/2009 10:15

Matrix:

Sample ID:

Inv - Cuttings

Date Received: 10/27/2009 09:30

Solid

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
2-Butanone	ND		ug/L	200	SW846 8260B			11/3/09 10:29	MES	Α
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
Chloroform	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
1.2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
1,1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			11/3/09 10.29	MES	Α
Trichloroethene	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
Vinyl Chloride	ND		ug/L	20.0	SW846 8260B			11/3/09 10:29	MES	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1,2-Dichloroethane-d4 (S)	5		%	62-133	SW846 8260B			11/3/09 10:29	MES	Α
4-Bromofluorobenzene (S)	4.6		%	79-114	SW846 8260B			11/3/09 10:29	MES	Α
Dibromofluoromethane (S)	4.4		%	78-116	SW846 8260B			11/3/09 10:29	MES	A
Toluene-d8 (S)	4.9		%	76-127	SW846 8260B			11/3/09 10:29	MES	A
TCLP SEMI-VOLATILES										
mp-Cresol	ND		ug/L	160	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
o-Cresol	ND		ug/L	160	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
1.4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
2.4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Pentachlorophenol	ND		ug/L	320	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Pyridine	ND		ug/L	160	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
2,4,6-Trichlorophenol	ND		ug/L	160	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
2,4,6-Tribromophenol (S)	85.5		%	40-125	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Phenal-d5 (S)	33.2		%	13-49	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Terphenyl-d14 (S)	80		%	50-122	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
Nitrobenzene-d5 (S)	82		%	40-110	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
2-Fluorobiphenyl (S)	69.9		%	50-110	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
2-Fluorophenol (S)	48.7		%	20-75	SW846 8270D	11/2/09	TNC	11/2/09 22:08	CGS	A1
TCLP LEACHATE										
Extraction Fluid Used	1				SW846 1311			10/30/09 06:45	EL	Α
Final pH	6.1 <b>4</b>		pH Units		SW846 1311			10/30/09 06:45	EL	A
Preliminary pH after DI water	7.23		pH Units		SW846 1311			10/30/09 06:45	EL	A
r reminiary per alter or water	1.20		P. (_01110		3,,340,1011			10100103 00.40		





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430

#### **ANALYTICAL RESULTS**

Workorder: 9816272

L2H

9816272001 Lab ID:

Date Collected: 10/26/2009 10:15

Matrix.

Solid

Sample ID:

Inv - Cuttings

Date Received: 10/27/2009 09:30

Parameters

Results

Flag Units RDL

Method

Prepared By

Analyzed

amm mille

By Cntr

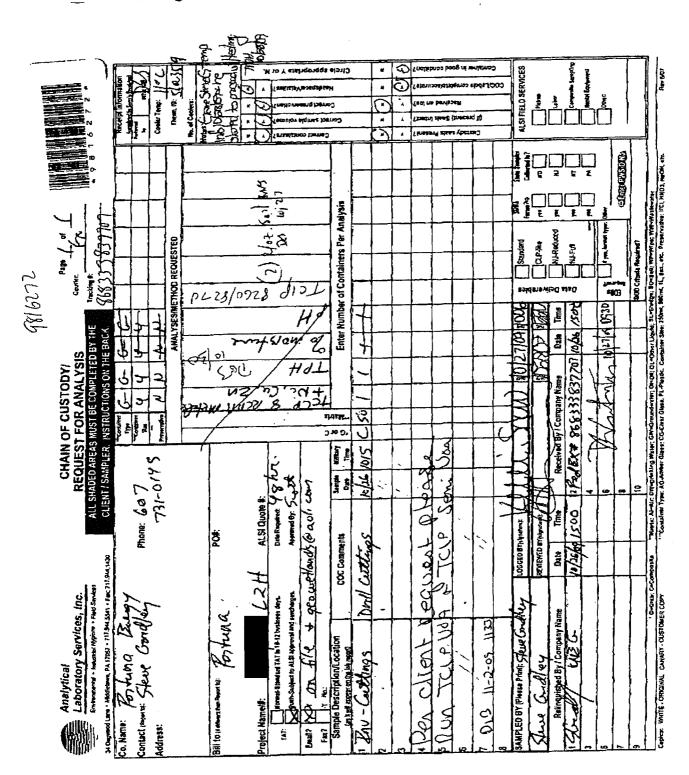
Sample Comments:

Laboratory Manager





34 Dogwood Lane - Middletown, PA 17057 Phone: 717-944-5541 Fax: 717-944-1430





#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.  General Reference 287.54						DEP I te Receive		eneral Notes
Genera	al Refe	rence 287.54						
Date P	repare		bruary 11, 2011					
		SECTION A.	CLIENT (GENERATOR	OF THE WASTE) I	NFORMA	TION		
Compa	-							
		ergy USA Inc.						-4 ID#
		y, Name of Parent Comp	pany			N/A	Gener	ator ID#
		ergy Inc. ling Address Line 1		ompany Mailing Addre	ss I ine 2	IN/A		
	-	d Place	3.	ompany maning Addre	OO LINE L			
		iress Last Line – City	State	Zip+4	Phone			Ext
Warre			PA	15086	(724)	814-530	00	
-	-	ntact Last Name	First Name	MI		Suffix	K	
Brown			Dina					
Munici Warre				County Allegheny				
Contac		e Ext	Contact Email Address	allegiterry				
(724) 8			dybrown@talismanusa.c	om				
			ny Mailing Address (noted a				Yes	⊠ No
	descri		neration and storage. Drill o					
the		<del></del>	located at 2202 Wolfe Hollow	Road, Columbia Towns	ship, Bradfor	rd County	<u>, PA.</u>	Waste is
storea i	п сопта	iners on site.						
Munici	pality	Columbia	County Bradfo	ord	St	tate	PΑ	
Munici	pality	Columbia	County Bradfo		St	tate	<u> PA</u>	
			SECTION B. WAST	ord EDESCRIPTION			PA_	Time
Munici Resid Waste	dual	Resid			Unit Measi	of	PA_	Time Frame
Resid Waste	dual	Resid Code I	SECTION B. WAST lual Waste Description	EDESCRIPTION  Amount	Unit Measi	of ure	PA	Frame
Resid	dual	Resid	SECTION B. WAST lual Waste Description gas)	Amount 8,491	Unit Meas	of ure	PA	
Resid Waste 810	dual Code	Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas) 1. GENERAL P	Amount 8,491 ROPERTIES	Unit Measi Cu yd	of ure	PA	Frame
Resid Waste 810	dual Code pH Ra	Resid Code I Drill cuttings (oil and one	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 79 to 11.10	Amount  8,491  ROPERTIES (based on analyses or keeps)	Unit Measi Cu yd	of ure	PA	Frame
Resid Waste 810	dual Code pH Ra	Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 79 to 11.10 Liquid Waste (EPA Me	Amount  8,491  ROPERTIES (based on analyses or key thod 9095)	Unit Measi Cu yd	of ure	PA	Frame
Resid Waste 810	dual Code pH Ra	Resid Code I Drill cuttings (oil and one	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909	Amount  8,491  ROPERTIES. (based on analyses or key thod 9095) 95)	Unit Measi Cu yd	of ure	PA	Frame
Resid Waste 810 a. b.	dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and some nge 9.7	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal	Amount  8,491  ROPERTIES. (based on analyses or key thod 9095) 95)	Unit Meası Cu yd Ib	of ure ☐ gal ☑ ton		Frame One Time
Resid Waste 810	dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and one	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black	Amount  8,491  ROPERTIES. (based on analyses or key thod 9095) 95) ture & pressure)  Oddo	Unit Meası □ cu yd □ lb □ lb □ nowledge)	of ure		Frame One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and some nge 9.7	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid	Amount  8,491  ROPERTIES: (based on analyses or key thod 9095) 95) ture & pressure)  Odd I Phases of Separation	Unit Mease Cu yd Ib Inowledge)  The Earth One	of ure ☐ gal ☑ ton		One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Resid Code I Drill cuttings (oil and some nge 9.7	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of si	Amount  8,491  ROPERTIES: (based on analyses or key thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro	Unit Mease Cu yd Ib Inowledge)  The Earth One	of ure ☐ gal ☑ ton		One Time
Resid Waste 810	pH Ra Physic	Resid Code I Drill cuttings (oil and enge 9.1 cal State	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Method 909  Gas (ambient temperat  Color Greyish Black  Number of Solid or Liquic  Describe each phase of seconds.	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Ro	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton	Petrole	Frame One Time
Resid Waste 810 a. b.	pH Ra Physic	Resid Code I Drill cuttings (oil and enge 9.1 cal State	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of si	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Ro	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton		One Time
Resid Waste 810	pH Ra Physic	Resid Code I Drill cuttings (oil and elements) nge 9.7 cal State cal Appearance sults of a detailed chemictions, is attached.	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Method 909  Gas (ambient temperat  Color Greyish Black  Number of Solid or Liquic  Describe each phase of seconds.	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton	Petrole	Frame One Time
Resid Waste 810 a. b.	pH Ra Physic Physic The re instruct A deta The qu	Resid Code I Drill cuttings (oil and elements) Resid State Sal State Sal Appearance Sults of a detailed chemictions, is attached. Sality assurance/quality	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Method 908  Gas (ambient temperal  Color Greyish Black  Number of Solid or Liquid  Describe each phase of solical characterization of the	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro Els ATTACHMENTS E waste, as described intached.	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton y/Slight F	Petrol	One Time  eum  No
Resid Waste 810 a. b.	pH Ra Physic Physic The re instruct A deta The quattach	Resid Code I Code I Drill cuttings (oil and general State  cal Appearance sults of a detailed chemications, is attached, illed description of the vality assurance/quality ed.	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Method 909  Gas (ambient temperated of Solid or Liquid Describe each phase of solid characterization of the waste sampling method is a	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Roes is ATTACHMENTS waste, as described in attached. yed by the laboratory(in	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton	Petrole Yes Yes	eum  No
Resid Waste 810 a. b. c.	pH Ra Physic Physic The re instruct A deta The quattach The re	Resid Code I Drill cuttings (oil and elements) al State  sults of a detailed chemetions, is attached, illed description of the vality assurance/quality ed. sults of the hazardous	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  79 to 11.10  Liquid Waste (EPA Method 908  Gas (ambient temperal  Color Greyish Black  Number of Solid or Liquid  Describe each phase of solic control procedures employ	Amount  8,491  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Roeses as described in the service of th	Unit Measi Cu yd Ib Inowledge)  The Earth One Ock Fragme	of ure ☐ gal ☑ ton  y/Slight Fents ☑	Yes Yes Yes	eum  No No No

12/4/02/09/09/09/09/09/09/09		. Process Description	1 & SCHEMATIC ATTAC	CHMENTS					
a.	A detailed description of the the waste, as specified in the	manufacturing and/or p instructions, is attache	ollution control proceed.	esses producing	⊠ Yes	☐ No			
b.	A schematic of the manufac as specified in the instruction		ontrol processes proc	ducing the waste,	⊠ Yes	☐ No			
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A			
,	SECTION C. MANAGEMENT OF RESIDUAL WASTE								
	1. PROCESSING OR DISPOSAL FACILITY (IES)								
The ar	The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.								
a.	Solid waste permit number(s 9-0232-00003		osal facility being util	ized.					
b.	Facility Name	Hyland Landfill							
	Address Line 1	6653 Herdman Road	<u> </u>						
	Address Line 1		100 attitude	7074					
	Address City State ZIP	Angelica	NY	14709					
	Municipality	Angelica	County	Allegany					
C.	Facility Contact Name	Larry Shilling							
	Title								
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com				
d.	Volume of waste shipped to 3,773	<b>processing or disposal t</b> ] cu yd gal	facility in the previous						
a.	Solid waste permit number(s 8-4630-00010	) for processing or disp	osal facility being utili	ized.					
b.	Facility Name	Hakes C&D Landfill							
	Address Line 1								
	Address Line I	4376 Manning Ridge	Road						
	Address Line 1		Road						
	Address Line 1 Address City State ZIP	Painted Post	NY	14870					
	Address Line 1 Address City State ZIP Municipality			14870 Steuben					
C.	Address Line 1 Address City State ZIP Municipality Facility Contact Name	Painted Post	NY						
C.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	Painted Post Erwin Twp Joseph Boyles	NY County	Steuben					
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271	NY County Email Address	Steuben joe.boyles@case	ella.com				
c.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271 processing or disposal f	NY County Email Address	Steuben  joe.boyles@case					
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271 processing or disposal for the post of the pos	NY County  Email Address acility in the previous	Steuben  joe.boyles@case					
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to 3,387	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271 processing or disposal f cu yd gal	NY County Email Address	Steuben  joe.boyles@case					
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to 3,387  Has the waste been approve	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271  processing or disposal for disposal for beneficial use?	NY County  Email Address  acility in the previous □ lb ☑ ton	Steuben  joe.boyles@case		No			
d. a.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to 3,387  Has the waste been approve If "Yes", list the general perm	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271 processing or disposal for uyd gal  2. BENI	NY County  Email Address facility in the previous Ib Stone  EFICIAL USE	Steuben  joe.boyles@case		No			
d.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to 3,387  Has the waste been approve	Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271 processing or disposal for uyd gal  2. BENI	NY County  Email Address facility in the previous Ib Stone  EFICIAL USE	joe.boyles@case s year. (check one)		⊠ No			

		PROCESS DESCRIPTION				£.;
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No
b.	A schematic of the manufactor as specified in the instruction		ontrol processes prod	ucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			for Yes	☐ No	⊠ N/A
	SECTION	ONIC. MANAGEM	ENT OF RESIDU	AL WASTE		
		1. PROCESSING OR	DISPOSAL FACILITY(IES	S)	745	1900
The ar	ea below (ad.) will accommod	late the identification o	f two facilities. Attach	additional sheets	if necessary	-
a.	Solid waste permit number(s) 8-0728-00004	for processing or disp	osal facility being utiliz	zed.		
b.	Facility Name	Chemung County La	ındfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
ļ	Address City State ZIP	Elmira	NY NY	14903		
	Municipality	Elmira	County	Chemung		
C.	Facility Contact Name	Carla Canjar				
	Title	Environmental Mana				
	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com	
d.	Volume of waste shipped to p	cu yd gal	☐ lb 🖂 ton	(check one)		
а.	Solid waste permit number(s)	for processing or disp	osal facility being utiliz	zed.		
b.	Facility Name					
	Address Line 1					
	Address Line 1	***************************************				
-	Address City State ZIP					
	Municipality	<u></u>	County			
C.	Facility Contact Name					
	Title					
	Phone		Email Address			
d.	Volume of waste shipped to p	rocessing or disposal f cu yd	acility in the previous	year. (check one)		
2 22 - 22		2. Ben	EFICIAL USE			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general permi	it number or approval r	ıumber.			
b.	Volume of waste beneficially	· <u> </u>				
	0	cu yd 📗 gal	☐ lb ☐ ton	(check one)		

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the Information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title Environmental Specialist Date Signature

### Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10071897

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#:

10071897

PAGE:

1 of 1

PO#:

AF76834

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

Well

SAMPLE: Inv. Cuttings

RECEIVED FOR LAB BY: WCB

DATE: 07/13/2010 13:15

Lab ID: 10071897-001A

Page 1 of 1

SAMPLED BY: SG	Sample	Sample Time: 07/12/2010 15:00				
<u>Test</u>	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	105000 mg/Kg	EPA 9071		07/15/10 0:00	07/15/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: Inv. Cuttings	L	ab ID: 10071897-001B	Grab		October Manager	
SAMPLED BY: SG	Sample	Time: 07/12/2010 15:00				
			<u>SLOQ</u>			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	13.8 %	Moisture Calc.	0.01	07/14/10 14:30	07/15/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/14/10 8:50	07/14/10	IC-SA
рH	9.79@22.2°C	EPA 9045C		07/14/10 12:23	07/14/10	DLM-SA

SAMPLED BY: SG

Lab ID: 10071897-001D

Sample Time: 07/12/2010 15:00

•		SLOQ			
Result	Method		Analysis Start	Analysis End	Analyst *
< 0.0008 mg/L	EPA 7470A	0.0008	07/16/10 9:00	07/18/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
< 10.00 mg/L	EPA 6010B	10.00	07/16/10 15:00	07/17/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
0.166 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	07/16/10 15:00	07/17/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	07/16/10 15:00	07/17/10	RMD-CV
< 0.200 mg/L	EPA 6010B	0.200	07/16/10 15:00	07/17/10	RMD-CV
	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.106 mg/L < 0.100 mg/L	<ul> <li>&lt; 0.0008 mg/L</li> <li>&lt; 0.500 mg/L</li> <li>&lt; 10.00 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.500 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.500 mg/L</li> <li>&lt; 0.500 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.500 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.100 mg/L</li> <li>&lt; 0.500 mg/L</li> </ul>	Result         Method           < 0.0008 mg/L	Result         Method         Analysis Start           < 0.0008 mg/L	Result         Method         Analysis Start         Analysis Enc           < 0.0008 mg/L

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carrie	M. Davis	DA	ATE:	7/20/2010	

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074055

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#: 10074055

PAGE: 1 of 2

PO#: AF77442

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

AMPLE: Air Cuttings & Gypsum	L	ab ID: 10074055-001A	Compo	site		
SAMPLED BY: SG	Sample	Time: 07/26/2010 12:38	SI 00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Sodium	723 mg/Kg-dry	EPA 6010B	105	07/28/10 10:30	07/28/10	GSR-CV
Chloride	615 mg/Kg-dry	EPA 300.0	66.9	07/27/10 15:16	07/28/10	HDP-CV
Percent Moisture	25.3 %	SM2540G		07/26/10 10:30	07/27/10	NFM-SA
AMPLE: Air Cuttings & Gypsum	L	ab ID: 10074055-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 07/26/2010 12:38				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Moisture	25.3 %	Moisture Calc.	0.01	07/26/10 10:30	07/27/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/26/10 16:35	07/26/10	IC-SA
pH	11.10@20.8°C	EPA 9045C	0	07/27/10 12:20	07/27/10	NFM-SA
AMPLE: Air Cuttings & Gypsum	Ĺ	ab ID: 10074055-001C	Compo	site		
SAMPLED BY: SG	Sample	Time: 07/26/2010 12:38				
<b>-</b> .	D 11	Madba d	SLOQ	A	A 1 . 1	A 1 1 1 W
Test	Result	Method FBA 0074		Analysis Start 07/27/10 12:00	Analysis End 07/27/10	Analyst *
Total Petroleum Hydrocarbons Sample Note: Analysis performed	154 mg/Kg by Microbac-Erie	EPA 9071		07/27/10 12:00	07/27/10	
MPLE: TLCP of Air Cuttings & Gy	rpsum L	ab ID: 10074055-001E	Grab			
SAMPLED BY: SG	-	Time: 07/26/2010 12:38				
	,		<u>SLOQ</u>			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0010 mg/L	EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

	/ #	¬		
MANAGER	(desir	M. Davis	DATE:	7/30/2010
	20000			

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074055

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10074055

PAGE:

2 of 2

PO#:

PWS ID#

AF77442

**TEST REPORT** 

PHONE: FAX:

(607) 562-4000 (607) 562-4001

RECEIVED FOR LAB BY: DLM2	DAT	E: 07/2	26/2010 15:15			P	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	S	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- S Spike Recovery outside accepted recovery limits

	// > .		
MANAGER	Carrie M. Davis	DATE:	7/30/2010



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the space d sheet as Form 26R,	ately completed. All requi s provided. If additional sp reference the item numb ets needs to match the date	ace is necessary, iden er and identify the d	tify			ONLY eneral Notes
Gener	al Refe	rence 287.54						
Date P	repare	d/Revised Fe	bruary 11, 2011				_	
			CLIENT (GENERATOR	OF THE WASTE) IN	IFORM	ATION		
	any Nar							
		ergy USA Inc. y, Name of Parent Com	pany			EPA	Gene	rator ID#
		ergy Inc.				N/A		
•	-	ling Address Line 1	C	ompany Mailing Addre	ss Line 2			
		d Place dress Last Line – City	State	Zip+4	Pho	ne		Ext
Warre	-	aress East Eine Oity	PA	15086		1) 814-53(	00	LAI
		ntact Last Name	First Name	MI		Suffi		····
Brown			Dina					
Munici Warre				County Allegheny				
	ct Phon	e Ext	Contact Email Address	allegiterry				
	814-53		dybrown@talismanusa.c		_		_	
Is the	waste g	enerated at the Compa	ny Mailing Address (noted a	above)?			Yes	⊠ No
If 'No', the			neration and storage. <u>Drill o</u> at 225 Buckwheat Road, Troy					
on site.		o well pad site located a	at 225 Buckwheat Road, 110y	Township, Bradiord Col	urity, i A.	Waste is s	toreu_	in containers
Munici	pality	Troy	County Bradfo		& ora zonem se se se se construe	State	PA_	DOSGARON ANTONNAS DA ARTONNAS
				E DESCRIPTION			т	
Resi Waste			ual Waste		Un	it of		Time
	Code	Code I		Amount	Mos	CHIPA	1	Framo
810			Description	Amount	Mea	sure	-	Frame
		Code I Drill cuttings (oil and	Description gas)	3,161		sure ☐ gal ⊠ ton		Frame One Time
		Drill cuttings (oil and	Description gas) 1. General P	3,161 -	☐ cu yd ☐ lb	☐ gal ⊠ ton		
a.	pH Ra	Drill cuttings (oil and	Description gas)  1. GENERAL P 1.65 to	3,161 - ROPERTIES (based on analyses or k	☐ cu yd ☐ lb	☐ gal ⊠ ton		
a. b.		Drill cuttings (oil and	Description  gas)  1. GENERAL P  .65 to  Liquid Waste (EPA Me	3,161 - ROPERTIES (based on analyses or k thod 9095)	☐ cu yd ☐ lb	☐ gal ⊠ ton		
		Drill cuttings (oil and	Description gas)  1. GENERAL P 1.65 to	3,161  ROPERTIES (based on analyses or key thod 9095) 95)	☐ cu yd ☐ lb	☐ gal ⊠ ton		
	Physic	Drill cuttings (oil and	gas)  1. GENERAL P  65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperat	3,161  ROPERTIES (based on analyses or kethod 9095) 95) ture & pressure) Odo	cu yd lb lb lb lowledge	☐ gal ⊠ ton	Petro	One Time
b.	Physic	Drill cuttings (oil and one of the oil and one of the oil and	gas)  1. GENERAL P  .65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient tempera  Color Greyish Black  Number of Solid or Liquid	3,161  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure) Odo I Phases of Separation	cu yd lb nowledge	☐ gal ☑ ton ) hy/Slight	Petro	One Time
b.	Physic	Drill cuttings (oil and one of the oil and one of the oil and	gas)  1. GENERAL P  65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperat	3,161  ROPERTIES (based on analyses or key thod 9095) 95) ture & pressure) Odo I Phases of Separation	cu yd lb nowledge	☐ gal ☑ ton ) hy/Slight	Petro	One Time
b.	Physic	Drill cuttings (oil and one of the oil and one of the oil and	Description  gas)  1. GENERAL P  .65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperated of Solid or Liquid Number of Solid or Liquid Describe each phase of s	3,161  ROPERTIES (based on analyses or kethod 9095) (bit of a pressure)  Odo I Phases of Separation eparation. Soil and Ro	cu yd lb nowledge	☐ gal ☑ ton ) hy/Slight	Petro	One Time
b.	Physic Physic The re	Drill cuttings (oil and one of the oil and of the oil and oil	gas)  1. GENERAL P  .65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient tempera  Color Greyish Black  Number of Solid or Liquid	3,161  ROPERTIES (based on analyses or kethod 9095) (bit of a pressure)  Odo I Phases of Separation eparation. Soil and Ro	cu yd bnowledge Eart One	☐ gal ☑ ton ) hy/Slight	Petro	One Time
b. c.	Physic Physic The re	Drill cuttings (oil and one of the color of	gas)  1. GENERAL P  65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperated or Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS	3,161  ROPERTIES (based on analyses or kethod 9095) (bit of a pressure)  Odo I Phases of Separation eparation. Soil and Ro BIS ATTACHMENTS waste, as described in	cu yd bnowledge Eart One	☐ gal ☑ ton ) hy/Slight		One Time
b. c. a.	Physical Phy	Drill cuttings (oil and one of the cuttings)  al Appearance  sults of a detailed chency of the cutting illed description of the cutting assurance/quality	Description  gas)  1. GENERAL P  65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperated or Greyish Black Number of Solid or Liquid Describe each phase of second or Liquid Describe each phase	3,161  ROPERTIES (based on analyses or kethod 9095) (bit of a pressure)  Odo I Phases of Separation eparation. Soil and Ro BIS ATTACHMENTS waste, as described in	cu yd bnowledge Fr Eart One ock Fragn	☐ gal ☑ ton ) hy/Slight	Yes	One Time
b. c. a. b.	Physic Physic The re instruct A deta The quattach	Drill cuttings (oil and one of the cuttings)  al Appearance  sults of a detailed chenctions, is attached. illed description of the cuality assurance/quality ed.	Description  gas)  1. GENERAL P  65 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperated or Greyish Black Number of Solid or Liquid Describe each phase of second or Liquid Describe each phase eac	3,161  ROPERTIES (based on analyses or kethod 9095) (bure & pressure)  Odo I Phases of Separation eparation. Soil and Ro (bis: ATTACHMENTS) waste, as described in ttached. (red by the laboratory(le	cu yd bnowledge Fr Eart One ock Fragn	☐ gal ☑ ton ) hy/Slight	Yes Yes	One Time

		3. Process Description & Schematic Attachments					
a.		ne manufacturing and/or pollution control processes producing Yes he instructions, is attached.	No				
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,   Yes   No as specified in the Instructions, is attached.						
C.		on submitted are confidential, the substantiation for Yes No described in the instructions, is attached.	N/A				
-	SEC	TION C. MANAGEMENT OF RESIDUAL WASTE					
1427		1. PROCESSING OR DISPOSAL FACILITY(IES)					
The ar	ea below (ad.) will accomm	odate the identification of two facilities. Attach additional sheets if necessary.					
a.	8-4630-00010	(s) for processing or disposal facility being utilized.					
b.	Facility Name	Hakes C&D Landfill					
	Address Line 1	4376 Manning Ridge Road					
	Address Line 1						
	Address City State ZIP	Painted Post NY 14870					
	Municipality	Erwin Twp County Steuben					
C.	Facility Contact Name	Joseph Boyles					
	Title Phone	(607) 937-6044 Email Address ioe.boyles@casella.com					
	Prione	(607) 937-6044					
d.	Volume of waste shipped to 1,566	o processing or disposal facility in the previous year.  Cuyd gal lb ton (check one)					
а.	Solid waste permit number 9-0232-00003	(s) for processing or disposal facility being utilized.					
b.	Facility Name	Hyland Landfill					
	Address Line 1	6653 Herdman Road					
	Address Line 1						
	Address City State ZIP	Angelica NY 14709					
	Municipality	Angelica County Allegany					
c.	Facility Contact Name	Larry Shilling					
	Title Phone	(585) 466-7271 Email Address   larry.shilling@casella.com					
		(coo, roo roo, roo, roo, roo, roo, roo, r					
d.	Volume of waste shipped to 855	o processing or disposal facility in the previous year.  cu yd gal lb 🔀 ton (check one)					
	000		acceptation of the				
	U Al	2. BENEFICIAL USE	<u> </u>				
a.	Has the waste been approve		No				
		rmit number or approval number.					
b.	0 Volume of waste beneficial	ly used in the previous year.  cu yd gal lb ton (check one)					

		3. PROCESS DESCRIPTION	ON & SCHEMATIC ATTA	CHMENTS		
a.	A detailed description of t the waste, as specified in			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruc		control processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the informati a confidentiality claim, as			on for Yes	☐ No	⊠ N/A
	SEC	TION C. MANAGE				
-			R DISPOSAL FACILITY(I			
The a	rea below (ad.) will accomr				if necessary	<i>'</i> .
a.	Solid waste permit numbe 8-0728-00004	r(s) for processing or dis	sposal facility being uti	lized.		
b.	Facility Name	Chemung County L	andfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
i	Address City State ZIP	Elmira	NY	14903		
	Municipality	Elmira	County	Chemung		
C.	Facility Contact Name	Carla Canjar				
<u> </u>	Title	Environmental Mar	nager			
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com	
d.	Volume of waste shipped t	cu yd gal	☐ lb 🖂 tor	n (check one)		
a.	Solid waste permit numbe 100361	r(s) for processing or dis	posal facility being util	lized.		
b.	Facility Name	McKean County La	ndfill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				
	Title					
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped t	o processing or disposa	I facility in the previous	s year.		
	167	cu yd gal	☐ lb      tor			
			NEFICIAL USE			
a.	Has the waste been approv				Yes	⊠ No
			number			
	If "Yes", list the general pe					
b.	If "Yes", list the general pe Volume of waste beneficia			n (check one)		

		SECTION D. CERTIFICATION
Report and all attached docu obtaining the information, I whowledge. I understand that	ments erify the s	nave personally examined and am familiar with the information submitted in this Annual and that based upon my inquiry of those individuals immediately responsible for that the submitted information is true, accurate and complete to the best of my submission of false information herein is made subject to the penalties of 18 Pa. C.S. on to authorities, which include fine and imprisonment.
Check the following, if applicat	le:	
I certify the information and has not chan	•	ired in Section B-1, General Properties was supplied to the Department for the year
Form Submitted:		Form 26R
		Other (specify)
Date Submitted:		
I certify the information and has not chan		ired in Section B-2, Chemical Analysis was supplied to the Department for the year
Form Submitted:		Form 26R
		Other (specify)
Date Submitted:		
l certify the Information I for the year and h	•	ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
Form Submitted:		Form 26R
		Other (specify)
Date Submitted:		
Name of Responsible Official		Title Environmental Specialist
Dina Brown	<del></del>	11-11
Signature	7	Date 425/11

LAB ID # 11216 LAB ID # 11827

## Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10041878

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#: 10041878

PAGE: 1 of 1

PO#: AF76509

PWS ID#

PHONE: FAX: (607) 562-4000

(607) 562-4001

Г5Н

RECEIVED FOR LAB BY: DLM2

DATE: 04/14/2010 10:50

**TEST REPORT** 

Page 1 of 1

MPLE: Inv. Cuttings	La	b ID: 10041878-001A	Compo	site		
SAMPLED BY: SG	Sample ²	Γime: 04/12/2010 17:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	d Analyst
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/15/10 11:30	04/15/10	RMD-C
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-C
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/15/10 11:45	04/15/10	RMD-C
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-C
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-C
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-C
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-C
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-C
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-C
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-C
Zinc - TCLP extracted	2.20 mg/L	EPA 6010B	0.200	04/15/10 11:45	04/15/10	RMD-C
pН	10.65 @ 21.5°C	EPA 9045D		04/15/10 10:45	04/15/10	SMH-C
Percent Moisture	30.4 %	SM2540G		04/15/10 8:00	04/15/10	DTG-C\
Total Petroleum Hydrocarbons	59000 mg/Kg-dry	EPA 1664A	1400	04/15/10 8:25	04/15/10	DTG-C\
	59000 mg/Kg-dry	EPA 1664A	1400			

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carrie M. Davis	DATE:	4/15/2010	
	90000 111			



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legib attache	oly printed in the space d sheet as Form 26R,	ately completed. All requi s provided. If additional sp reference the item numb ets needs to match the date	ace is necessary, iden er and identify the d	tify Date Receive	USE ONLY ed & General Notes
Genera	al Refer	rence 287.54				
Date P	repared	d/Revised Fe	bruary 11, 2011			
		A CONTRACTOR OF THE PROPERTY O	CLIENT (GENERATOR	R OF THE WASTE) II	VEORMATION	
	any Nar					
		ergy USA Inc. y, Name of Parent Com	nany		FΡΔ	Generator ID#
	-	ergy Inc.	, <u>,</u>		N/A	
	•	ling Address Line 1	C	ompany Mailing Addre	ss Line 2	
		d Place		7		P. 4
Warre		dress Last Line – City	State PA	<b>Zip+4</b> 15086	Phone (724) 814-530	Ext
		ntact Last Name	First Name	MI	Suffi	
Brown	-		Dina			
Munici				County		
Warre	ndale ct Phon	e Ext	Contact Email Address	Allegheny		
	814-53		dybrown@talismanusa.c	com		
Is the v	waste g	enerated at the Compa	ny Mailing Address (noted	above)?		Yes No
			neration and storage. Drill o			
the	(03 ners on s		d at 1185 Garrison Road, We	ells Township, Bradford	County, PA. Waste is	s stored in
Munici		Wells	County Bradfo	ord	State	PA
			SECTION B. WAST	E DESCRIPTION		
Resid			lual Waste		Unit of	Time
Waste	Code	Code I	Description	Amount	Measure	Frame
810		Drill cuttings (oil and	gas)	721	☐ cu yd ☐ gal ☐ lb	One Time
			1. GENERAL P	ROPERTIES		
a.	pH Ra			(based on analyses or l	(nowledge)	
b.	Physic	cal State	Liquid Waste (EPA Me	,		
			Solid (EPA Method 90) Gas (ambient tempera	,		
C.		•	I I Gas (allibicit tettibela	ture & pressure;		
	Physic	cal Appearance	<del></del>	Odo	r Farthy/Slight I	Petroleum
<b>U</b> .	Physic	cal Appearance	Color Greyish Black Number of Solid or Liquid			Petroleum
<b>.</b>	Physic	cal Appearance	Color Greyish Black	d Phases of Separation	One	Petroleum
<b>.</b>	Physic	cal Appearance	Color Greyish Black Number of Solid or Liquid Describe each phase of s	d Phases of Separation eparation. <u>Soil and Ro</u>	One	Petroleum
	-		Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS	d Phases of Separation eparation. Soil and Ross ATTACHMENTS	One ock Fragments	
a.	The re	sults of a detailed chen ctions, is attached.	Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	d Phases of Separation eparation. <u>Soil and Ro</u> SIS ATTACHMENTS waste, as described i	One ock Fragments	Petroleum  Yes No
a. b.	The re instruct	sults of a detailed chen ctions, is attached. iled description of the v	Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the waste sampling method is a	d Phases of Separation eparation. <u>Soil and Ross ATTACHMENTS</u> waste, as described in attached.	One ock Fragments  n the	Yes No
a.	The re instruc A deta The qu	sults of a detailed chen ctions, is attached. illed description of the v uality assurance/quality	Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	d Phases of Separation eparation. <u>Soil and Ross ATTACHMENTS</u> waste, as described in attached.	One ock Fragments  n the	Yes No
a. b.	The re instruct A deta	sults of a detailed chen ctions, is attached. illed description of the v rality assurance/quality	Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the waste sampling method is a	d Phases of Separation eparation. Soil and Ross ATTACHMENTS waste, as described in attached.  The property of the laboratory (in the laboratory)	One ock Fragments  n the	Yes No

		PROCESS DESCRIPTION				10.00	
a.	A detailed description of the the waste, as specified in the			esses producing	Yes	No	
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,   No as specified in the instructions, is attached.						
C.	If portions of the information a confidentiality claim, as de			n for 🔲 Yes	□ No	⊠ N/A	
	SECTI	ON C. MANAGEME 1. Processing or D	**************************************	Variable Common Variation of House Control of 1774, 74 Challe surface 1 4 Control on London	A harman		
The ar	rea below (ad.) will accommo				if necessary		
а.	Solid waste permit number(s 9-0232-00003	) for processing or dispo	sal facility being util	ized.			
b.	Facility Name	Hyland Landfill					
	Address Line 1	6653 Herdman Road					
	Address Line 1		\\				
	Address City State ZIP	Angelica	NY NY	14709			
	Municipality	Angelica	County	Allegany			
C.	Facility Contact Name	Larry Shilling					
	Title	(=0=) 100 =0=1					
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com		
d.	Volume of waste shipped to 423	] cuyd 🔲 gal	☐ lb ⊠ ton	(check one)			
а.	Solid waste permit number(s 100361	) for processing or dispo	sal facility being utili	ized.			
b.	Facility Name	McKean County Land	fill				
	Address Line 1	19 Ness Lane					
	Address Line 1						
	Address City State ZIP	Kane	PA PA	16735			
	Municipality	Sergeant Twp	County	McKean			
C.	Facility Contact Name	Mike Manderfeld					
	Title	(04.4) 770 0004	Email Address	1. (.146)	-11		
	Phone	(814) 778-9931		manderfeld@gm	all.com		
d.	Volume of waste shipped to   298	cu yd 🔲 gal	☐ lb 🛚 ton				
3.1			FICIAL USE				
a.	Has the waste been approved				☐ Yes	⊠ No	
	If "Yes", list the general perm						
b.	If "Yes", list the general perm Volume of waste beneficially 0			(check one)			

	SECTION B. SERVICION
	SECTION D. CERTIFICATION
Report and all attached docur obtaining the information, I v knowledge. I understand that	that I have personally examined and am familiar with the information submitted in this Annual ments and that based upon my inquiry of those individuals immediately responsible for verify that the submitted information is true, accurate and complete to the best of my the submission of false information herein is made subject to the penalties of 18 Pa. C.S. ification to authorities, which include fine and imprisonment.
Check the following, if applicab	ole:
l certify the information and has not chang	required in Section B-1, General Properties was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
I certify the information and has not change	required in Section B-2, Chemical Analysis was supplied to the Department for the year ged.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	·
I certify the information refor the year and ha	required in Section B-3, Process Description and Schematic, was supplied to the Department as not changed.
Form Submitted:	Form 26R
	Other (specify)
Date Submitted:	
Name of Responsible Official	Title Environmental Specialist
Dina Brown	
Signature	_ 5/6w\ Date Z/2S/11

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10113523

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

PAGE:

WO#:

1 of 1

PO#:

PWS ID#

AF76888

10113523

PHONE: FAX:

(607) 731-0145

(607) 562-4001

RECEIVED FOR LAB BY: SCP	DATE:	11/22/2010 12:33			Pa	ige 1 of 1
SAMPLE: Inv. Cuttings		Lab ID: 10113523-001A	Grab			
SAMPLED BY: SG	Sample	e Time: 11/21/2010 9:00	81.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	54000 mg/Kg	EPA 9071	170	11/23/10 0:00	11/23/10	•
Sample Note: Analysis performed	by Microbac Laboratories,	IncErie Division				
SAMPLE: Inv. Cuttings		Lab ID: 10113523-001B	Grab			
SAMPLED BY: SG	Sample	e Time: 11/21/2010 9:00				
		**	SLOQ			
Test	Result	Method	0.04	Analysis Start	Analysis End	
Moisture	36.9 %	Moisture Calc.	0.01	11/24/10 10:30	11/29/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	11/23/10 17:10	11/23/10	IC-SA
рН	7.78@24.2°C	EPA 9045C		11/23/10 14:00	11/23/10	SG-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttinas	Lab ID: 10113523-001D	Grab			
SAMPLED BY: SG	-	e Time: 11/24/2010 8:00				
	:		SLOQ			
Test	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted			~ ~ ~ ~ ~			
	< 0.0008 mg/L	EPA 7470A	0.0008	11/27/10 12:35	11/28/10	RMD-CV
Arsenic - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L	EPA 7470A EPA 6010B	0.0008	11/27/10 12:35 11/27/10 8:15	11/28/10 11/27/10	RMD-CV JRA-CV
Arsenic - TCLP extracted Barium - TCLP extracted	-					
	< 0.500 mg/L	EPA 6010B	0.500	11/27/10 8:15	11/27/10	JRA-CV
Barium - TCLP extracted	< 0.500 mg/L < 10.00 mg/L	EPA 6010B EPA 6010B	0.500 10.00	11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10	JRA-CV JRA-CV
Barium - TCLP extracted Cadmium - TCLP extracted	< 0.500 mg/L < 10.00 mg/L < 0.100 mg/L	EPA 6010B EPA 6010B EPA 6010B	0.500 10.00 0.100	11/27/10 8:15 11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10 11/27/10	JRA-CV JRA-CV JRA-CV
Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted	< 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L	EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.500 10.00 0.100 0.500	11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10 11/27/10 11/27/10	JRA-CV JRA-CV JRA-CV JRA-CV
Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted	< 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L	EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.500 10.00 0.100 0.500 0.100	11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10 11/27/10 11/27/10 11/27/10	JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV
Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted	< 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L	EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.500 10.00 0.100 0.500 0.100 0.500	11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10 11/27/10 11/27/10 11/27/10 11/27/10	JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV
Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted Nickel - TCLP extracted	< 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L	EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.500 10.00 0.100 0.500 0.100 0.500 0.100	11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15 11/27/10 8:15	11/27/10 11/27/10 11/27/10 11/27/10 11/27/10 11/27/10 11/27/10	JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV JRA-CV

#### REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range
- Due to matrix blas, spike recovery was outside acceptance limits

MANAGER	Carrie	m Davisi	DATE:	11/30/2010
MINITARIO	uww	101. On Annual		

CHAIN OF CUSTODY									PAGE1	OF1
Talisman / UEG							:40		ARE SPECIAL DET	TECTION I BUTC
geowetlands@aol.com			1	NI	<b>O</b> #	: 101	13523			
	PEEDIG	E				-		WTO 405 DENIG VIDES 755	NEEDED: YES	
		COLLECT		.0	/DW	/ DRINKING V	·····	ULTS ARE BEING USED FOR:  OH NYDEC PADE	IF YES, PLEASE AT	
					/ GV	GROUND W	ATER SO SOIL		P IS A QC PA	ACKAGE NEEDED?
CONTACT Steve Gridley	TRA	NSPORT		,	/ sw wv			LANDFILL	_	s 🖸 NO
PH# 607-731-0145		то	_		DE	DEIONIZED		SONAL OTHER	IF YES, PLEASE AT	TTACH REQUIREMENTS
FAX#	1	ORATOR'	Y		1	// /H s	HYDROCHLORIC ACID OH SODIUM SULFURIC ACID AS ASCORE	HYDROXIDE	/ /s;/	
BILL TO: Talisman		TH ICE		/ ,	/ 🐒 /	/ N	NITRIC ACID AC ACETIC	ACID	/ /&/	
		, ,	/		8/	/ SO ₃	SODIUM SULFITE NH, AMMONI SODIUM THIOSULFATE ZN ZINC AC	IUM CHLORIDE ETATE /	(\$\\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	
PO# AF 76888	7 ,	/ / إ	, /		§ / ç	,/	NONE Hg MERCUF	RIC CHLORIDE	\$/\$/ _	u
PROJECT DESCRIPTION	CATE SAMO.		\ <i>\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tilit}}\\\ \text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{\text{\texi}\text{\text{\text{\text{\text{\text{\texi}\text{\text{\texi}\text{</i>	نير/		3 CHANNE	An incomplete chain of custody ma	ny delay the		lease fill out all pplicable areas
SAMPLER SIGNATURE / AFFILIATION		* / § /	2/	E/		<u> </u>	processing of your sample	(S).	/毫/	completely
glan uta		/\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	Ž/.		₹ /			<i>&amp;</i> /	
CONTAINER / SAMPLING POINT	18/	THE OF SAMPLING	SAME	/ 8	PRES. MITALS	/	ANALYSIS TO BE PERFORMED (PER CONTAINER)	IUM CHLORIDE ETATE RIC CHLORIDE  ay delay the (s).	LAB US	SE ONLY
1 Inv Cuttings	19/21 10	000 SV	C	8	W	TPH				
2						рН	177			
3						TCLP 8	RCRA Metals + Cu, Ni, Zn			
4						Free Liq	uids / % Moisture			
5 A-TPH							77 2 1			
6 B- Wetchen)						Perform	BTEX ONLY IF the TPH			
7 C- Total Semple						excee	eds 100,000 mg/Kg			
8 N-TCLP Metals										
9						7	2 HOUR TURNAROUN	ID		
10							DAY TURNAROUND			
11						dell	2 11129/10			
LAB USE ONLY										
LAB USE ONLY								ग्रापाद्यक्षेत्रीया हिन्दु हिन्दु	E YO ARRIV	ALON ( <b>GENY</b> AN
RELINQUIBITED BY		DATE:			TIME:	************	RECEIVED BY:		DATE:	TIME:
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PAGE 1 OF 1

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110482

Phone: (570) 888-0169 Fax: (570) 888-0717

Steve Gridley

WO#:

10110482

JIMPANY:

Talisman Energy USA, Inc.

PAGE:

1 of 1

337 Daniel Zenker Dr

AF 76888

ADDRESS:

Horseheads, NY 14845

PO#:

PHONE:

**TEST REPORT** 

PWS ID#

FAX:

(607) 731-0145 (607) 562-4001

V2H

RECEIVED FOR LAB BY: RML

DATE: 11/03/2010 12:36

Page 1 of 1

Analysis End Analyst*

RMD-CV

11/04/10

SAMPLE:	Air Cuttings	
SAM	IPLED BY: SG	
Te	est	

Total Petroleum Hydrocarbons

Lab ID: 10110482-001A Grab Sample Time: 11/03/2010 19:40

Annhasia Ctant

Analysis Start 11/04/10 13:15

SLOQ Result Method

1110 mg/Kg

**Analysis Start** Analysis End Analyst * 11/04/10 14:30 11/04/10

Sample Note: Analysis performed by Microbac Laboratories, Inc-Erie Division.

SAMPLE:	Air Cuttings
CALL	DIED DV. CO

Lab ID: 10110482-001B Grab

40

EPA 9071

-c. All outsings		EUD 10, 70 110 102 00 1D
SAMPLED BY: SG	Samp	ie Time: 11/03/2010 19:40
Test	Populé	Mathad

1.62t	Nesun	wethod		Analysis Start	Analysis End	Analyst
Moisture	33.7 %	Moisture Calc.	0.01	11/03/10 14:45	11/04/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	11/03/10 14:40	11/03/10	IC-SA
pH	8.20@23.6°C	EPA 9045C		11/04/10 15:32	11/04/10	SG-SA

SAMPLE:	TCLP Leachate of Air Cutt	ings

Lab ID: 10110482-001D

Grab

SLOQ

SAMPLED BY: SG	Sample	CI 00	
Test	Result	Method	SLOO
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	8000.0
Arsenic - TCLP extracted	< 0.500 mg/l	EPA 6010B	0.500

Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	11/04/10 14:05	11/04/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Chromium - TCLP extracted	< 0,500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV

Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	11/04/10 14:05	11/04/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV

## REMARKS:

* CV = Benchmark Analytics, Inc.	Center Valley, PA;	SA = Benchmark Analytics, Inc.	Sayre, PA

MANAGER	Carrie M. Davis	DATE:	11/5/2010

CHAIN OF CUSTODY						E	Bench					GE		DF <u>        1  </u>	
REPORT TO: Talisman / UEG	]			، ف	2	see D	ennsyt	W/O#+	101104	02					
geowetlands@aol.com				•	2	א טטנ	Pt.		101104	02		IE SPECIAL			,.
twollin@rallysolutions.ca	,	NOEB	ATE SA	LEADI I			Fax: (570) 88	8-0717				NEEDED: Y		<del>_</del>	
twolini@ranysolutions.ca			LLECTI		E0	/ _{EV}	V ODILIVAJO MATER	ol ollipar	RESULTS ARE BEI	ng USEC DEC	FOR:  FADEP	IF YES, PLEAS	ii i		
	] '					DV GV	Y GROUND WATER	SL SLUDGE SO SOIL			PADEP	l .	1	GE NEEDED?	
CONTACT Steve Gridley	_   T	RANS	PORT	,	١,	/ sv w	W WASTE WATER	H <b>Z HAZARDO</b> US OTHER	רו	OFILL		1	IN E		
PH# 607-731-0145		)Ţ dosk	O ATORY	,	$\parallel \mid \mid$	Di T	DEIONIZED WATER  H HYDROC	DI DISTILLED WAT HLORIC ACID OH	TER PERSONAL OTH SODIUM HYDROXIDE	ER		IFYES, PLEAS	E ATTACH	1 REQUIREM	ENTS
FAX#  BILL TO: Talisman  PO# 1 = 76 8 8		IN CO	OLER I ICE	_/			S SULFURI N NITRIC A SO, SODIUM Thic SODIUM - NONE	C ACID AS CID AC	ASCORBIC ACID ACETIC ACID ACETIC ACID AMMONIUM CHLORID ZING ACETATE MERCURIC CHLORIDI	E :					:•
PROJECT DESCRIPTION  SAMPLE PSIGNATURE / AFFILIATION  LE O-		TIME SAMPLES	SAMPLING SAMPLING	SALLE MERRY	I CANTE. GO	PRE THINING COMPOSITE	An Inci	omplete chain of cu precessing of you	stody may delay the r sample(s).	نا ''	PRESS ON RES	LAB	Pease applica con	e fill out all able areas apletely	
CONTAINER SAMPLING POINT	/		8	<u>/ 3</u>	10	\ \delta \\ \delta \tag{\delta} align*	ANA	LYSIS TO BE PERFOR (PER CONTAINER)	MED		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		USE (	ONLY	
1 Air Cuttings	11/3	1940	50	C	50	1	TPH	······································		3			701	rA II	<u>.</u>
2					<u> </u>		pH, Chlorides,			- 10 - 47 - 12	1.	1 6 5		B	
3					<u> </u>		TCLP 8 RCRA	Metals + Cu,	Ni, Zn					ر لارے	
4					<u> </u>		Free Liquids / 9	6 Moisture		1				B	
5	ļ				1		BTEX			ii.					
6	ļ		•		<u>li</u>		TC(P 8260 / 89		<del>DEJPH</del>	1	11.		11-12	4.3	
7	<u> </u>				<u> </u>	ļ	exceeds 120	0,000 mg/Kg		y 12-1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
В					<u> </u>						6.5			Mil	
9	<u> </u>			ļ				OUR TURNA							1
10					<u> </u>		D/	AY TURNARO	DUND					- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	
11	<u> </u>	<u> </u>	<u> </u>	<u>L</u>	Щ.,	<u> </u>	<u> </u>		· · · · · · · · · · · · · · · · · · ·				4		
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### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

## FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed or legi each attach	ibly printed in the spac ed sheet as Form 26F	rately completed. All requi es provided. If additional sp R, reference the item numb eets needs to match the date	ace is necessary, iden er and identify the o	tify Date Receiv	USE{ONLY red & General Notes
General Refe	erence 287.54				
Date Prepare	ed/Revised F	February 11, 2011			
	SECTION A	. CLIENT (GENERATOR	ROF THE WASTE) I	NEORMATION	
Company Na	ime				
	ergy USA Inc.				
	ry, Name of Parent Con	npany			Generator ID#
Talisman Er	ergy Inc. ailing Address Line 1		A dd-	N/A	
50 Pennwoo		C	ompany Mailing Addre	ess Line Z	
	Idress Last Line – City	State	Zip+4	Phone	Ext
Warrendale		PA	15086	(724) 841-53	
Company Co	ntact Last Name	First Name	Mi	Suff	
Brown		Dina			
Municipality			County		
Warrendale Contact Pho	ne Ext	Contact Email Address	Allegheny		
(724) 814-53		dybrown@talismanusa.c	om		
		any Mailing Address (noted a		П	Yes X No
		eneration and storage. Drill o		ت uring natural gas dril	
the (0		ated at 2018 Mountain Avenue,			
containers on		County Dradfa	d	Stata	DA
containers on Municipality	site. Armenia	County Bradfo	- 7 - 7	State	PA
Municipality	Armenia	SECTION B. WAST	- 7 - 7		
Municipality  Residual	Armenia Resi	SECTION B. WAST	E DESCRIPTION	Unit of	Time
Municipality  Residual  Waste Code	Armenia Resi Code	SECTION B. WAST idual Waste Description	E DESCRIPTION  Amount		
Municipality  Residual	Armenia Resi	SECTION B. WAST idual Waste Description	E DESCRIPTION	Unit of Measure	Time
Residual Waste Code 810	Armenia  Resi Code  Drill cuttings (oil and	SECTION B. WAST idual Waste Description d gas)	Amount 5,619 ROPERTIES	Unit of Measure  Cu yd  gal Ib  ton	Time Frame
Residual Waste Code 810	Armenia  Resi Code  Drill cuttings (oil and	SECTION B. WAST idual Waste Description d gas)  1 GENERAL P 3.26 to 8.89	Amount 5,619 ROPERTIES (based on analyses or	Unit of Measure  Cu yd  gal Ib  ton	Time Frame
Residual Waste Code 810	Armenia  Resi Code  Drill cuttings (oil and	SECTION B. WAST idual Waste Description d gas)  1. GENERAL P  1. Liquid Waste (EPA Me	Amount 5,619 ROPERTIES (based on analyses or thod 9095)	Unit of Measure  Cu yd  gal Ib  ton	Time Frame
Residual Waste Code 810	Armenia  Resi Code  Drill cuttings (oil and	SECTION B. WAST idual Waste Description d gas)  1. GENERAL P 3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 906	Amount 5,619  ROPERTIES (based on analyses or thod 9095) 95)	Unit of Measure  Cu yd  gal Ib  ton	Time Frame
Residual Waste Code 810  a. pH R b. Physi	Armenia  Resi Code  Drill cuttings (oil and ange 8 ical State	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 908 Gas (ambient temperate	Amount 5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)	Unit of Measure  cu yd gal lb ton  cnowledge)	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physi	Armenia  Resi Code  Drill cuttings (oil and	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  8.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 908 Gas (ambient temperat	Amount 5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Ode	Unit of Measure  Cu yd  gal Ib  ton  Cnowledge)	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physi	Armenia  Resi Code  Drill cuttings (oil and ange 8 ical State	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid	Amount 5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation	Unit of Measure  cu yd gal lb ston  cnowledge)  Dr Earthy/Slight One	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physi	Armenia  Resi Code  Drill cuttings (oil and ange 8 ical State	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  8.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 908 Gas (ambient temperat	Amount 5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation	Unit of Measure  cu yd gal lb ton  cnowledge)  Dr Earthy/Slight One	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physi	Armenia  Resi Code  Drill cuttings (oil and ange 8 ical State	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid	Amount  5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Re	Unit of Measure  cu yd gal lb ton  cnowledge)  Dr Earthy/Slight One	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physical Code a. The residual Physical	Armenia  Resi Code Drill cuttings (oil and ange 8 Ical State Ical Appearance	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so	Amount  5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Resistrachments	Unit of Measure  cu yd gal lb ton  cnowledge)  Dr Earthy/Slight One ock Fragments	Time Frame One Time
Residual Waste Code 810  a. pH R b. Physi  c. Physi	Armenia  Resi Code Drill cuttings (oil and ange 8 Ical State  Ical Appearance  esults of a detailed che actions, is attached.	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 900 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of semical characterization of the	Amount  5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Resistant	Unit of Measure  cu yd gal lb ton  cnowledge)  Dr Earthy/Slight One ock Fragments	Time Frame  One Time  Petroleum  Yes No
Residual Waste Code 810  a. pH Rib. Physical Phy	Armenia  Resi Code Drill cuttings (oil and ange 8 ical State  cal Appearance  esults of a detailed che actions, is attached. ailed description of the	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of se	Amount  5,619  ROPERTIES (based on analyses or other street of the service)  Odd Phases of Separation eparation. Soil and Resistant Achments waste, as described intached.	Unit of Measure  u yd gal b S ton  Chowledge)  Dr Earthy/Slight One Dock Fragments	Time Frame  One Time  Petroleum  Yes No  No
Residual Waste Code 810  a. pH Residual Physics c. Physics a. The residual Physics b. A det c. The quantum control of the physics c. The quantum c	Armenia  Resi Code Drill cuttings (oil and ange 8 Ical State  Ical Appearance  esults of a detailed che actions, is attached. ailed description of the uality assurance/quality	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 900 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of semical characterization of the	Amount  5,619  ROPERTIES (based on analyses or other street of the service)  Odd Phases of Separation eparation. Soil and Resistant Achments waste, as described intached.	Unit of Measure  u yd gal b S ton  Chowledge)  Dr Earthy/Slight One Dock Fragments	Time Frame  One Time  Petroleum  Yes No
Residual Waste Code 810  a. pH R b. Physi  c. Physi  a. The r instru b. A det c. The q attact	Armenia  Resi Code Drill cuttings (oil and ange 8 ical State  cal Appearance  esults of a detailed che actions, is attached. ailed description of the uality assurance/quality	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of so	Amount  5,619  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Resistrachments waste, as described intached. yed by the laboratory(	Unit of Measure  u yd gal b S ton  Chowledge)  Dr Earthy/Slight One Dock Fragments	Petroleum  Yes No Yes No Yes No
Residual Waste Code  810  a. pH R b. Physi  c. Physi  b. A det c. The q attact d. The r	Armenia  Resi Code Drill cuttings (oil and ange 8 Ical State  Ical Appearance  esults of a detailed che actions, is attached. ailed description of the uality assurance/qualified. esults of the hazardous	SECTION B. WAST idual Waste Description  d gas)  1. GENERAL P  3.26 to 8.89  Liquid Waste (EPA Me Solid (EPA Method 900) Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of se	Amount  5,619  ROPERTIES (based on analyses or othod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Resident and Residen	Unit of Measure  u yd gal b S ton  Chowledge)  Dr Earthy/Slight One Dock Fragments	Time Frame  One Time  Petroleum  Yes No  No

1000		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS
a.		the manufacturing and/or pollution control processes producing
b.	A schematic of the manulas specified in the instruc	facturing and/or pollution control processes producing the waste, 🛛 Yes 🔲 No ctions, is attached.
C.		tion submitted are confidential, the substantiation for Yes No N/A described in the instructions, is attached.
	SEC	CTION C. MANAGEMENT OF RESIDUAL WASTE
i.		1. PROCESSING OR DISPOSAL FACILITY(IES).
The ar	ea below (ad.) will accom	modate the identification of two facilities. Attach additional sheets if necessary.
a.	8-4630-00010	er(s) for processing or disposal facility being utilized.
b.	Facility Name	Hakes C&D Landfill
	Address Line 1	4376 Manning Ridge Road
	Address Line 1	
	Address City State ZIP	Painted Post NY 14870
	Municipality	Erwin Twp County Steuben
c.	Facility Contact Name	Joseph Boyles
	Title	
	Phone	(607) 937-6044
d.	2,512	to processing or disposal facility in the previous year.  cu yd gal b con (check one)
a.	Solid waste permit number 9-0232-00003	er(s) for processing or disposal facility being utilized.
b.	Facility Name	Hyland Landfill
	Address Line 1	6653 Herdman Road
İ	Address Line 1	
	Address City State ZIP	Angelica NY 14709
	Municipality	Angelica County Allegany
C.	Facility Contact Name	Larry Shilling
	Title	
	Phone	(585) 466-7271 Email Address larry.shilling@casella.com
d.	Volume of waste shipped 2,139	to processing or disposal facility in the previous year.  Cu yd Gal Bb Ston (check one)
		2. Beneficial Use
a.	Has the waste been appro	oved for beneficial use?
	<u>, , , , , , , , , , , , , , , , , , , </u>	ermit number or approval number.
b.	Volume of waste beneficia	ally used in the previous year.  cu yd gal lb ton (check one)
ь		

a. A detailed description of the manufacturing and/or pollution control processes producing	a.		3. Process Descriptio				
as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.  SECTION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  100361  b. Facility Name					esses producing	⊠ Yes	☐ No
SE©TION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  100361  b. Facility Name	b.	A schematic of the manufa as specified in the Instruct	cturing and/or pollution on ons, is attached.	ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized. 100361  b. Facility Name Address Line 1 Address Line 1 Address City State ZIP Kane PA 16735 Municipality Sergeant Twp County McKean  c. Facility Contact Name Title Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility being utilized. 100945  b. Facility Name Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Address City State ZIP Newburg PA 17240 Municipality Newburg PA 17240 Municipality Newburg PA 17240 Municipality Newburg PA 17240  c. Facility Contact Name Title Compliance Manager Phone (717) 729-5261 Email Address dhilbert@iswaste.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 30	C.				on for Yes	☐ No	⊠ N/A
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solld waste permit number(s) for processing or disposal facility being utilized.  100361  b. Facility Name		SE <u>©</u>	ION C. MANAGEM	IENT OF RESIDU	JAL WASTE		
a. Solid waste permit number(s) for processing or disposal facility being utilized.  100361  b. Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Sergeant Twp County McKean  c. Facility Contact Name Title Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 938 Guid waste permit number(s) for processing or disposal facility being utilized. 100945  b. Facility Name Address Line 1 Address Line 1 Address Line 1 Address Line 1 Address Line 1 Address Line 1 Address City State ZIP Newburg PA 17240 Newburg Boro County Cumberland  c. Facility Contact Name Dusty Hilbert Title Compliance Manager Phone (717) 729-5261 Email Address dhilbert@iswaste.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 30			1. PROCESSING OR	DISPOSAL FACILITY(I	ES)		
b. Facility Name Address Line 1 Address City State ZIP Municipality	The ar	rea below (ad.) will accomm	odate the identification o	f two facilities. Attac	h additional sheets	if necessary	<b>'-</b>
Address Line 1 Address City State ZIP Municipality  C. Facility Contact Name Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Mike Manderfeld  Title Phone  Title Compliance Manager Title Phone  Title Compliance Manager Title Phone  Mike Manderfeld  Title Compliance Manager Title Phone  Title Compliance Manager Title Phone  Mike Manderfeld  Title Compliance Manager Title Title Compliance Manager Title Title Compliance Manager Title Phone  Mike Manderfeld  Title Title Compliance Manager Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Title Titl	а.	•	(s) for processing or disp	osal facility being uti	lized.		
Address Line 1 Address City State ZIP Municipality  C. Facility Contact Name Title Phone  Mike Manderfeld Title Phone  Mike Manderfeld  Mike Manderfeld  Title Phone  Curyd gal b on (check one)  Address Line 1 Address Line 1 Address Line 1 Address City State ZIP Municipality Newburg PA 17240  Newburg PA 17240  Newburg Boro County Cumberland  County Hilbert Title Title Compliance Manager Phone  Title Compliance Manager Phone  Mike Manderfeld  Title Compliance Manager Title Phone  Title Compliance Manager Title Phone  Mike Manderfeld  Title Compliance Manager Title Phone  Curyd gal b on (check one)  Z. BENEFICIAL USE  Alas the waste been approved for beneficial use?  Mike Manderfeld  Title Phone Mike Manderfeld  Title Phone  Mike Manderfeld  Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Compliance Manager Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty Hilbert Title Disty	b.			dfill			
Address City State ZIP Municipality  Sergeant Twp County McKean  C. Facility Contact Name Title Phone  Mike Manderfeld Title Phone  Mike Manderfeld  Mike Manderfeld  Title Phone  Mike Manderfeld  Mike Manderfeld  Title Phone  Mike Manderfeld  Mike Manderfeld  Mite Manderfeld  Mike Manderfeld  Mite Manderfeld  Mite Manderfeld  Mite Manderfeld  Mite Manderfeld  Mite Mandersel Title Phone  Mike Manderfeld  Mite Mandersel Title Title Manderse City State ZIP Municipality  Newburg PA Municipality  Newburg PA Municipality  Newburg Boro  Mite Mandersel Title Mount Mandersel Title Mount Mandersel Manager Phone  Mite Mandersel Title Mount Mandersel Mite Mandersel Title Mount Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mandersel Mite Mandersel Mite Mandersel Mite Mandersel Mandersel Mite Mandersel Mandersel Mite Mandersel Mandersel Mite Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Mandersel Manders			19 Ness Lane				
Municipality Sergeant Twp County McKean  Mike Manderfeld Title Phone Mike Manderfeld  (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 938							
c. Facility Contact Name Title Phone		•					
Title Phone		• •		County	McKean		
d. Volume of waste shipped to processing or disposal facility in the previous year. 938	c.	<del>-</del>	Mike Manderfeld				
a. Solid waste permit number(s) for processing or disposal facility being utilized.  100945  b. Facility Name		Phone	(814) 778-9931	Email Address	manderfeld@gm	nail.com	
b. Facility Name	d.	938	cu yd gal	☐ lb 🖂 tor	•	)	******
Address Line 1 Address City State ZIP Municipality  C. Facility Contact Name Title Phone  Compliance Manager Phone  Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance Manager Compliance	a.	Solid waste permit number	a) for proposing or diam				
Address City State ZIP Address City State ZIP Municipality  Newburg Boro  County Cumberland  C. Facility Contact Name Title Compliance Manager Phone  (717) 729-5261  Email Address dhilbert@iswaste.com  Cuyd gal lb ton (check one)  2. BENEFICIAL USE  a. Has the waste been approved for beneficial use? If "Yes", llst the general permit number or approval number.  b. Volume of waste shipped to processing or disposal number.			s) for processing or disp	osal facility being uti	lized.		
Address City State ZIP Municipality  Newburg Boro  County Cumberland  C. Facility Contact Name Title Phone  Compliance Manager Phone  Compliance Manager (717) 729-5261  Email Address  Chilbert@iswaste.com  Cuyd gal lb oton (check one)  2. BENEFICIAL USE  a. Has the waste been approved for beneficial use? If "Yes", llst the general permit number or approval number.  b. Volume of waste shipped to processing or disposal facility in the previous year.  2. BENEFICIAL USE  A long year.  No If "Yes", llst the general permit number or approval number.	b.	100945			lized.		
Municipality  Newburg Boro  County  Cumberland  Dusty Hilbert  Title  Compliance Manager  Phone  (717) 729-5261  Email Address  dhilbert@iswaste.com  Cuyd gal lb ton (check one)  2. Beneficial Use  a. Has the waste been approved for beneficial use?  If "Yes", llst the general permit number or approval number.  b. Volume of waste Name  County  Cumberland  Cumberlan	b.	100945  Facility Name Address Line 1	Cumberland County		lized.		
C. Facility Contact Name Title Phone Title Phone  Compliance Manager (717) 729-5261  Email Address dhilbert@iswaste.com  Compliance Manager (717) 729-5261  Email Address dhilbert@iswaste.com  Cu yd gal lb ton (check one)  2. BENEFICIAL USE  a. Has the waste been approved for beneficial use? If "Yes", llst the general permit number or approval number.  b. Volume of waste beneficially used in the previous year.	b.	Facility Name Address Line 1 Address Line 1	Cumberland County 135 Vaughn Road	Landfill			
Title Compliance Manager Phone (717) 729-5261 Email Address dhilbert@iswaste.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 30	b.	Facility Name Address Line 1 Address City State ZIP	Cumberland County 135 Vaughn Road Newburg	Landfill PA	17240		
Phone (717) 729-5261 Email Address dhilbert@iswaste.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 30	b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	Cumberland County 135 Vaughn Road Newburg Newburg Boro	Landfill PA	17240		
d. Volume of waste shipped to processing or disposal facility in the previous year.  30		Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert	Landfill PA County	17240		
30		Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage	Landfill PA County	17240 Cumberland		
2. BENEFICIAL USE  a. Has the waste been approved for beneficial use?  If "Yes", list the general permit number or approval number.  b. Volume of waste beneficially used in the previous year.		Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261	Landfill PA County	17240 Cumberland dhilbert@iswaste	e.com	
a. Has the waste been approved for beneficial use?  If "Yes", list the general permit number or approval number.  b. Volume of waste beneficially used in the previous year.	c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261	Landfill PA County  T Email Address facility in the previous	17240 Cumberland dhilbert@iswaste		
If "Yes", list the general permit number or approval number.  b. Volume of waste beneficially used in the previous year.	c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261	Landfill PA County  T Email Address facility in the previous	17240 Cumberland dhilbert@iswaste		
b. Volume of waste beneficially used in the previous year.	c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261 processing or disposal u yd gal  2. BEN	PA County  Fr Email Address  Facility in the previous	17240 Cumberland dhilbert@iswaste		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
<u>-</u> '_ '	c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261 processing or disposal u yd gal  2. BEN	PA County  Fr Email Address  Facility in the previous	17240 Cumberland dhilbert@iswaste		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
U	c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 30  Has the waste been approv If "Yes", list the general per	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261 processing or disposal cu yd gal 2. BEN ed for beneficial use? mit number or approval i	PA County  Email Address facility in the previous Ib  tor EFICIAL USE	17240 Cumberland dhilbert@iswaste		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	d.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone  Volume of waste shipped to 30  Has the waste been approving "Yes", list the general per Volume of waste beneficial	Cumberland County 135 Vaughn Road  Newburg Newburg Boro Dusty Hilbert Compliance Manage (717) 729-5261 processing or disposal cu yd gal 2. BEN ed for beneficial use? mit number or approval r	PA County  Email Address facility in the previous Ib Stor	17240 Cumberland dhilbert@iswastes year. (check one)	Yes	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s

			SECTION D. CERTIFICATION
Repo obtain know	rt and all attached docu ning the information, I v ledge. I understand that	ments /erify the s	have personally examined and am familiar with the information submitted in this Annual and that based upon my inquiry of those individuals immediately responsible for that the submitted information is true, accurate and complete to the best of my ubmission of false information herein is made subject to the penalties of 18 Pa. C.S. on to authorities, which include fine and imprisonment.
Chec	k the following, if applicat	ole:	
. 🔲	I certify the information and has not chan	-	red in Section B-1, General Properties was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	I certify the information and has not chan-	•	red in Section B-2, Chemical Analysis was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	I certify the information if for the year and h	•	ed in Section B-3, Process Description and Schematic, was supplied to the Department changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Name	of Responsible Official		Title Environmental Specialist
Dina I	Brown 🕜		
Signa	ture 12	<u>&gt;</u>	Un Date

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10083653

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10083653

PAGE:

1 of 2

PO#:

AF77717

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

01-074-01

RECEIVED FOR LAB BY: DLM2	DATE:	08/20/2010 11:51			P	age 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG		ab ID: 10083653-001A Time: 08/19/2010 15:06	Compo	site		
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Sodium	1830 mg/Kg	EPA 6010B	60.0	08/24/10 15:00	08/24/10	RMD-CV
pH	8.30 @ 17.8°C	EPA 9045D	00.0	08/25/10 10:25	08/25/10	TLB-CV
Chloride	223 mg/Kg	EPA 300.0	50.0	08/23/10 14:05	08/23/10	HDP-CV
SAMPLE: Air Cuttings	L	ab ID: 10083653-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/19/2010 15:06	SLOQ			
Test	Result	Method	SLUQ	Analysis Start	Analysis End	Analyst *
 Moisture	35.0 %	Moisture Calc.	0.01	08/23/10 13:30	08/24/10	MED-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	08/23/10 15:25	08/23/10	IC-SA
SAMPLE: Air Cuttings	L	ab ID: 10083653-001C	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/19/2010 15:06				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	5400 mg/Kg	EPA 9071		08/23/10 11:15	08/23/10	Maryot
Sample Note: Analysis performed by				00/20/10 / 11/10	00/20/ 10	
SAMPLE: TCLP Leachate of Air Cuttin	ngs L	ab ID: 10083653-001E	Compo	site		
SAMPLED BY: SG	_	Time: 08/21/2010 9:00	SLOQ			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	08/24/10 8:45	08/24/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/24/10 10:50	08/24/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/24/10 10:50	08/24/10	RMD-CV
Cadmium - TCLP extracted	0.101 mg/L	EPA 6010B	0.100	08/24/10 10:50	08/24/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/24/10 10:50	08/24/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/24/10 10:50	08/24/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/24/10 10:50	08/24/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/24/10 10:50	08/24/10	RMD-CV

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- L Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Oarles	DATE:	8/25/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10083653

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10083653

PAGE:

2 of 2

PO#:

AF77717

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

01-074-01

RECEIVED FOR LAB BY: DLM2 DATE: 08/20/2010 11:51 Page 2 of 2

Selenium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 08/24/10 10:50 08/24/10 RMD-CV Silver - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/24/10 10:50 08/24/10 RMD-CV L Zinc - TCLP extracted 115 mg/L EPA 6010B 0.200 08/24/10 10:50 08/24/10 RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Value above calibration range but within annually verified linear range

MANAGER	Cani	M. Davis	DATE:	8/25/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10092004

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10092004

PAGE:

1 of 1

PO#:

AF77717

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

RECEIVED FOR LAR BY: T.IC. DATE: 09/13/2010 17:12

Page 1 of 1

RECEIVED FOR LAB BY: IJC	DATE:	09/13/2010 17:12	_		Pa	age I of I
SAMPLE: Inv. Cuttings SAMPLED BY: SG		ab ID: 10092004-001A Time: 09/13/2010 12:05	Grab SLOQ		· · · · · · · · · · · · · · · · · · ·	
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	77900 mg/Kg	EPA 9071		09/19/10 10:20	09/19/10	
Sample Note: Analysis performed	by Microbac Laboratories, In	ncErie Division				
SAMPLE: Inv. Cuttings	L	ab ID: 10092004-001B	Grab			
SAMPLED BY: SG	Sample	Time: 09/13/2010 12:05				
T	Darult	Mathad	<u>SLOQ</u>	Amalonia Otant	Associate Food	A l 4 +
<u>Test</u> Moisture	<u>Result</u> 22.9 %	Method	0.04	Analysis Start	Analysis End	
		Moisture Calc.	0.01	09/14/10 10:00	09/15/10	MED-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/14/10 15:00	09/14/10	IC-SA
pH 	8.89@20.3°C	EPA 9045C		09/14/10 14:26	09/14/10	MED-SA
SAMPLE: TCLP Leachate of Inv. Cu	uttings L	ab ID: 10092004-001D	Grab			
SAMPLED BY: SG	Sample	Time: 09/15/2010 9:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/15/10 9:00	09/16/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/16/10 8:00	09/16/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Nickel - TCLP extracted	0.114 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/16/10 8:00	09/16/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/16/10 8:00	09/16/10	RMD-CV
Zinc - TCLP extracted	_	L EPA 6010B	0.200	09/16/10 8:00	09/16/10	RMD-CV
	•					

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

	/1	· .		
MANAGER	Carrie 1	M. Davis	DATE:	9/20/2010

LAB ID # 11216 LAB ID # 11827

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10094268

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#: 10094268

PAGE: 1 of 1

PO#: AF77718

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

01-074

RECEIVED FOR LAB BY: BMM	DAT	E: 09/27/2010 14:48			Pa	age 1 of 1
SAMPLE: Gel Cuttings		Lab ID: 10094268-001B	Compo	site		
SAMPLED BY: SG	Sar	nple Time: 09/25/2010 17:19	01.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	26.7 %	Moisture Calc.	0.01	09/27/10 17:00	09/28/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/27/10 16:10	09/27/10	IC-SA
рН	8.26@21.4°C	EPA 9045C		09/27/10 16:28	09/27/10	MED-SA
SAMPLE: TCLP Leachate of Gel Co	uttings	Lab ID: 10094268-001C	Compo	site		
SAMPLED BY: SG		nple Time: 09/28/2010 7:30				
Total	D#	<b>1 4</b> - 41I	<u>SLOQ</u>	Amelia Otasi	Amelia Fod	A 1 4 *
<u>Test</u> Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	<u>Method</u> EPA 7470A	0.0008	Analysis Start 09/28/10 14:15	Analysis End 09/28/10	Analyst *
•	J		0.500			JRA-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B		09/28/10 14:00	09/28/10	JRA-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/28/10 14:00	09/28/10	JRA-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/28/10 14:00	09/28/10	JRA-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/28/10 14:00	09/28/10	JRA-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/28/10 14:00	09/28/10	JRA-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/28/10 14:00	09/28/10	JRA-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/28/10 14:00	09/28/10	JRA-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/28/10 14:00	09/28/10	JRA-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/28/10 14:00	09/28/10	JRA-CV
Zinc - TCLP extracted	28.7 mg/L	L EPA 6010B	0.200	09/28/10 14:00	09/28/10	JRA-CV
SAMPLE: Gel Cuttings		Lab ID: 10094268-001D	Compo	site		
SAMPLED BY: SG	San	nple Time: 09/25/2010 17:19	81.00			
<u>Test</u>	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	5220 mg/Kg	EPA 9071		09/28/10 12:58	09/28/10	

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

MANAGER	(h)	n Davis	DATE.	9/30/2010
MAINAGEIX	<u> </u>	101. 00000	<i>D/</i> (12.	7/50/2010

LAB ID # 11216 LAB ID # 11827

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10101808

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10101808

PAGE:

1 of 1

PO#:

AF77717

PWS ID#

PHONE: FAX:

(607) 731-0145 (607) 562-4001 **TEST REPORT** 

Pad Inv. Spill

RECEIVED FOR LAB BY: BMM	DAT	E: 10/	12/2010 16:22			P	age 1 of 1
SAMPLE: Clean Soil			D: 10101808-001A	Compo	site		· · · · · · · · · · · · · · · · · · ·
SAMPLED BY: SG	Sar	npie ! im	e: 09/28/2010 19:55	SLOQ			
Test	Result		Method	<u>orow</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	<118 mg/Kg		EPA 9071	118	10/14/10 10:25	10/14/10	
Sample Note: This sample was an	alyzed by Microbac Lat	oratories	s, IncErie Division				
SAMPLE: Clean Soil	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	Lab I	D: 10101808-001B	Compo	site		
SAMPLED BY: SG	San	nple Time	e: 09/28/2010 19:55				
T1	D#		B 4 - 41 I	SLOQ	A t '- Ot - t		
<u>Test</u> Moisture	<u>Result</u> 9.12 %	к	Method	0.01	Analysis Start 10/13/10 17:00	Analysis End	
			Moisture Calc.	0.01		10/15/10	IC-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	10/13/10 15:10	10/13/10	IC-SA
. рН	8.35@22.8°C	K	EPA 9045C		10/15/10 17:00	10/15/10	IC-SA
SAMPLE: TCLP Leachate of Clean S	ioil	Lab II	D: 10101808-001D	Compo	site		
SAMPLED BY: SG	San	nple Time	e: 10/14/2010 7:30				
Toot	Dogula		Method	SLOQ	Analysis Ctart	Anabaia End	5 m m ls - m 6 . 9
<u>Test</u> Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L		EPA 7470A	0.0008	Analysis Start 10/16/10 9:35	Analysis End 10/17/10	
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	10/16/10 9:35		RMD-CV
Barium - TCLP extracted	_					10/16/10	RMD-CV
	< 10.00 mg/L		EPA 6010B	10.00	10/16/10 10:15	10/16/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	10/16/10 10:15	10/16/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	10/16/10 10:15	10/16/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	10/16/10 10:15	10/16/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	10/16/10 10:15	10/16/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	10/16/10 10:15	10/16/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	10/16/10 10:15	10/16/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	10/16/10 10:15	10/16/10	RMD-CV
Zinc - TCLP extracted	0.588 mg/L		EPA 6010B	0.200	10/16/10 10:15	10/16/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Sample was received past holding time.

MANAGER	Carri M. Davis	DATE:	10/18/2010

CHAIN OF CUSTODY  REPORT TO: Talisman / UEG	1			:	E	Bençhmark	Analytics, inc	).			PAGE	1	_OF	_1
geowetlands@aol.com	•										ARE SPECIA			VIITS
twollin@rallysolutions.ca	REFRIG AFTER (				1	W/O#:	101018	808	BEING U NYDEC	SED FOR:	NEEDED:	SE ATIV		EDEO?
CONTACT Steve Gridley PH# 607-731-0145	1	NSPORT			/ sv w Di	W WASTE WATER	OTHER	US WATER PERSONAL	LANDFILL OTHER_		IFYES PLEA	ASE ATT	☑NO ACH REQL	UIREMENTS
FAX#  BILL TO: Talisman  PO# /	IN (	ORATOR COOLER ITH ICE	SALL FAMILIES	SAL FINE GO	COMPLET INITIALS COMPOSITE	H HY S SU N NI SO ₄ SC Thio SC - NO	JIFURIC ACID TRIC ACID TRIC ACID JOIUM SULFITE DOIUM THIOSULFATE DNE  An incomplete chain o	your sample(s).	D	Composite ON E.	TO SERVENING ADDED ON PECEFOY	Pe	ase fill out olicable an completely E ONLY	reas y
1 Law Guttinge Clean Soil	9-28/9			\$2	10		(PER CONTAINE	iR)			OKIN	ιο ψο	Z ONLI	
2	770/1	75 /2	1		1	pH	,				1000		7	
3 ,						TCLP 8 RC	RA Metals + C	Cu, Ni, Zn			MIC	51		
4			<b> </b>	1			s / % Moisture		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		MON			
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i

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121720

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

ADDRESS:

Horseheads, NY 14845

WO#:

10121720

PAGE:

1 of 3

PO#:

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**EPA 8270C** 

**EPA 8270C** 

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12/14/10 8:37

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RHH-SA

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RHH-SA

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RHH-\$A

RHH-SA

AF77720

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

b1-074

RECEIVED FOR LAB BY: RMI

DATE: 12/09/2010 15:45

**TEST REPORT** 

Page 1 of 3

RECEIVED FOR LAB BT. RIVIL	. UAI	E. 12/09/2010 15:45			P	ige 1 01 3
SAMPLE: Air or Gel Cuttings		Lab ID: 10121720-001A	Grab			
SAMPLED BY: SG	Sar	mple Time: 12/08/2010 19:23				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	/ WIWIYUC
Sample Note: Analysis performe					12.72.73	
SAMPLE: Air or Gel Cuttings		Lab ID: 10121720-001C	Grab			
SAMPLED BY: SG	Sai	mple Time: 12/08/2010 19:23				
	<b>_</b>		<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Cyanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV
Reactive Sulfide	16 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Air or Gel Cuttings		Lab ID: 10121720-001D	Grab			,
SAMPLED BY: SG	Sai	mple Time: 12/08/2010 19:23				
		•	SLOQ			
Test	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
% Solids	64.88 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	13.81 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Air or	Gel Cuttings	Lab ID: 10121720-001F	Grab			
SAMPLED BY: SG	Sar	mple Time: 12/11/2010 12:45				
			SLOQ			
Test	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA

#### REMARKS:

1,4-Dichlorobenzene

p-Cresol/m-Cresol

Hexachloroethane

2,4,6-Trichlorophenol

Nitrobenzene Hexachlorobutadiene

o-Cresol

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.10 mg/L

Analyte detected in the associated Method Blank

	//		
MANAGER	Carrie M. Davis	DATE:	12/16/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121720

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

01-074

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121720

PAGE:

2 of 3

PO#:

AF77720

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

RECEIVED FOR LAB BY: RML	DAT	E: 12/09/2010 15:45			F	age 2 of 3
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/14/10 8:37	12/14/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
SAMPLE: TCLP Leachate of Air or G	el Cuttings	Lab ID: 10121720-001G	Grab			

SAMPLED BY: SG

Strontium - TCLP extracted

<u>Test</u>

Sample Time: 08/21/2010 9:00

Method

**EPA 6010B** 

SLQQ

0.010 08/24/10 10:50

**Analysis Start** Analysis End Analyst *

08/24/10 RMD-CV

0.110 mg/L Sample Note: Sample for TCLP extracted Strontium was received on 8/20/10 at 11:51 by DLM2.

Result

SAMPLE: TCLP Leachate of Air or Gel Cuttings

SAMPLED BY: SG

Lab ID: 10121720-001H Sample Time: 12/11/2010 12:45

Grab SLOQ

Method Analysis Start Analysis End Analyst * Test Result рΗ SM4500H+B 12/14/10 8:00 12/14/10 5.72@16.8°C SG-SA

Lab ID: 10121720-0011 SAMPLE: ZHE Extract of Air or Gel Cuttings Grab Sample Time: 12/11/2010 12:45 SAMPLED BY: SG

			SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank

MANAGER DATE: 12/16/2010	)
--------------------------	---

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121720

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121720

PAGE:

3 of 3

PO#:

AF77720

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

(007) 002 4001						
01-074	:	- 40/00/0040 45 45			-	- 44
RECEIVED FOR LAB BY: RML	. DATI	E: 12/09/2010 15:45			Pa	ige 3 of 3
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Air of	or Gel Cuttings	Lab ID: 10121720-001J	Grab			
SAMPLED BY: SG		ple Time: 12/10/2010 11:15	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	91 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Air of	or Gel Cuttings	Lab ID: 10121720-001L	Grab			
SAMPLED BY: SG	Sam	ple Time: 12/10/2010 11:15				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
pH	7.10@16.5°C	<u>M64500</u> SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	196 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Air or Gel Cuttings	.;	Lab ID: 10121720-001M	Grab	, · , · · · · · · · · · · · · · · · · ·		
SAMPLED BY: SG	Sam	ple Time: 12/10/2010 10:25	CI 00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	

### REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Analyte detected in the associated Method Blank

Sample Note: Analysis performed by Analytical Services, Inc.

			10/10/10010
MANAGER	Carrie M. Davis	DATE:	12/16/2010

CHAIN OF CUSTODY	Benchma	1OF1
REPORT TO: Talisman / UEG	Eas 2566 Pennsylvania	
geowetlands@aol.com	Phone: W/O#: 10121720	PECIAL DETECTION LIMITS
geowellands@aoi.com	Fax: (	:D:□YES /☑NO
	REFRIGERATE SAMPLES  RESULTS ARE BEING USED FOR: IF YE	ES, PLEASE ATTACH
	AFTER COLLECTION  DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP  GW GROUND WATER SO SOIL	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostolier  TRANSPORT WW WASTE WATER OTHER	YES NO
PH# 607-731-0145	DE DESONIZED WATER DI DISTILLED WATER DERSONAL OTHER	ES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	1/2/
BILL TO: Talisman	IN COOLER S SULFURIC ACID AS ASCORBIC ACID WITH ICE N NITRIC ACID AC ACETIC ACID OCCUPIENT ACID AC ACETIC ACID	/ ş ^y /
	SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE SODIUM THIOSULFATE ZN ZINC ACETATE	<u>**/</u>
PO# AP77720	/ / S / S / S   NONE Hg MERCURIC CHLORIDE   / S / S	37
PROJECT DESCRIPTION 7 9		Please fill out all applicable areas
SAMPLET SIGNATURE / AFFILIATION	Processing of your sample(s).	completely
CONTAINER SAMPLING POINT	LABORATORY IN COOLER WITH ICE    H	
	(PER CONTAINER)	LAB USE ONLY
1 Air or Gel Cuttings	12/8 1923 50 C SG- D Ignitability, Reactive Sulfide & Cyanide	
2	PCBs, Total Solids	
3 A-Theren, Inc.	G Total Volatile Solids	
4 C - Recofinity	C Ammonia-Nitrogen	
5 D - 2075, TVS	Water Leaching Procedure: COD,	
6 E-T, Sample	Total Solids, Oil & Grease,	
7 F. TELP 8270, Posts.		
8 5- TELP Herbs Sr	K-ASVA V46	
9 H-TCLP PH	L ASTM T.S. p.H 36 HOUR TURNAROUND	
10 I - TELP Vols.	m-TOX DAY TURNAROUND	
11 J-ASTM COD, MHZ		
LAB USE CNLY		
iaig Wiritalia		CARRY WILL STA
RELINQUISHED	DATE: TIME: , RECEIVED BY: DATE	
700	121910 1530	1 1
RELINQUISHED BY:	DATE: TIME: RECEIVED BY:	TE: TIME:
RELINQUISHED BY:	DATE: RECEIVED BY: 0 A OU DATE	219110 TYSUS
	- 1 ' ' I Chille / They	Ad Graphics Printing 570-888-9685

## Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Phone: (570) 888-0169 Fax: (570) 888-0717

December 17, 2010

Attn: Dina Brown Talisman Energy USA, Inc. 337 Daniel Zenker Dr Horseheads, NY 14845

Dear Dina Brown:

The enclosed corrected test report for work order 10121754 is a replacement for a test report sent earlier. We did not report the COD analysis (ASTM) with a B qualfier, indicating that the analyte was detected in the associated ASTM blank. I apologize for any inconvenience that this may have caused. Thank you.

Sincerely Yours,

Carrie Davis
Quality Assurance Officer

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121754

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121754

PAGE:

1 of 3

PO#:

AF77720

PHONE: FAX:

(607) 562-4000

(607) 562-4001

PWS ID#

01-074

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

**TEST REPORT** 

Page 1 of 3

RECEIVED FOR LAB BT. RIVIL	DATE.	12/09/2010 15:45			F	age 1 01 3
SAMPLE: Inv. Cuttings	L	ab ID: 10121754-001A	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 19:15				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	, , , , , , , , , , , , , , , , , , , ,
Sample Note: Analysis performe	•					
SAMPLE: Inv. Cuttings	L	ab ID: 10121754-001C	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 19:15				
<b>*</b> 4	Decuit	R d or thou and	SLOQ	Analysia Start	Analysis End	Analyst *
Test	<u>Result</u> 0.2 mg/Kg	Method SW 7.3.3.2	0.2	Analysis Start 12/13/10 8:56	12/14/10	HDP-CV
Cyanide, Reactive	= =	<del>-</del>	16	12/14/10 12:30	12/14/10	
Reactive Sulfide	80 mg/Kg	SW846 7.3	10	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings	l	ab ID: 10121754-001D	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 19:15				
_	· .		SLOQ			
Test	Result	<u>Method</u>		Analysis Start	Analysis End	
% Solids	77.07 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	8.78 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. C	uttings L	ab ID: 10121754-001F	Grab			
SAMPLED BY: SG	Sample	Time: 12/11/2010 12:45				
Toot	Result	Method	SLOQ	Analysis Start	Analysis End	Analyse *
<u>Test</u> Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
	•	EPA 8270C	0.10	12/15/10 7:48	12/15/10	
p-Cresol/m-Cresol	< 0.10 mg/L					RHH-\$A
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

## **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met alt of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Cami	M. Davis	DA	TE: 12/16/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121754

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121754

PAGE:

2 of 3

PO#:

AF77720

PHONE: EAY.

(607) 562-4000

(607) 660 4004

**TEST REPORT** 

PWS ID#

01-074 ECEIVED FOR LAB BY: RML	DAT	ΓΕ: 12/09/2010 15:45			P	age 2 of 3
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-\$A
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
AMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10121754-001G	Grab			
SAMPLED BY: SG	Sa	mple Time: 09/15/2010 9:00				
			SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis Eng	Analyst *
Strontium - TCLP extracted	0.212 mg/L	EPA 6010B	0.050	09/16/10 8:00	09/16/10	RMD-CV
Sample Note: Sample for TCLP ex	tracted Strontium was	received on 9/13/10 at 17:12 b	y TJC.			
AMPLE: TCLP Leachate of Inv. Cut	tinas	Lab ID: 10121754-001H	Grab		,	

SAMPLED BY: SG	San	npie Time: 09/15/2010 9:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Strontium - TCLP extracted	0.212 mg/L	EPA 6010B	0.050	09/16/10 8:00	09/16/10	RMD-CV
Sample Note: Sample for TCLP extra	•					
SAMPLE: TCLP Leachate of Inv. Cutti	ngs ·	Lab ID: 10121754-001H	Grab			
SAMPLED BY: SG	San	nple Time: 12/11/2010 12:45				
			SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
рН	6.03@16.9°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cuttings	<b>.</b>	Lab ID: 10121754-001	Grab			
SAMPLED BY: SG	San	nple Time: 12/13/2010 8:45				
			SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

Toluene

Tetrachloroethene

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

**EPA 8260B** 

**EPA 8260B** 

0.0250 12/13/10 8:11

0.0250 12/13/10 8:11

12/13/10

12/13/10

CTM-SA

CTM-SA

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.0250 mg/L

< 0.0250 mg/L

MANAGER	Carry	M. Davis	DAT	E: <u>12/16/2010</u>	)
1717 ti 47 (Omi (	unu	781, 000			

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121754

10121754

AF77720

3 of 3

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

PHONE:

FAX:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

WO#: PAGE:

PO#:

Horseheads, NY 14845

(607) 562-4001

**TEST REPORT** (607) 562-4000

PWS ID#

01-074 RECEIVED FOR LAB BY: RML	! DA	TE: 12/09/2010 15:45			n	7 af?
RECEIVED FOR LAB B1. RIVIL	DA	1E. 12/09/2010 15.45			Pa	ge 3 of 3
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cutting	ngs	Lab ID: 10121754-001J	Grab		,,,	
SAMPLED BY: SG	St	ample Time: 12/10/2010 11:15				
T	ri Proposite	انالا _ ف	SLOQ	Ameliana Start	Amelijaia Emel	Amaluat *
Test	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	276 mg/L	HACH 8000	1	12/15/10 10:00	12/15/10	KAL-SA
SAMPLE: ASTM Extract of Inv. Cutting	ngs	Lab ID: 10121754-001L	Grab			
SAMPLED BY: SG	- · Sa	ample Time: 12/10/2010 11:15				
			SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
рН	8.19@17.2°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	442 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings	٠	Lab ID: 10121754-001M	Grab			
SAMPLED BY: SG	Ş	ample Time: 12/10/2010 10:25	SLOQ			
Test	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed b	y Analytical Services	, Inc.			•	

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

WAYAOLIY CALL TVI. CALLET	MANAGER	Carri	M. Davis	DATE:	12/16/2010
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CHAIN OF CUSTODY	Benc	PAGE 1 OF 1
REPORT TO: Talisman / UEG	2566 Penns: W/O#: 10121754	ARE SPECIAL DETECTION LIMITS
geowetlands@aol.com	f W/On. 10121104	
grania	1 an (010) 000-0111	NEEDED: YES / NO
	REFRIGERATE SAMPLES  AFTER COLLECTION  AFTER COLLECTION  RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	AFTER COLLECTION  DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADER  GW GROUND WATER SO SOIL	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller TRANSPORT WW WASTE WATER OTHER	YES 7NO
PH# 607-731-0145	TO / DE DEIGNIZED MATER DI DISTILLED MATER DEPONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE  S SULFURIC ACID AS ASCORBIC ACID	/ /5/
BILL TO: Talisman	IN COOLER S SULFURIC ACID AS ASCORBIC ACID WITH ICE N NITRIC ACID AC ACETIC ACID OCCUPANT ACID STEEL ACID ACID ACID ACID ACID ACID ACID ACID	/ /\$/
	SO ₃ SODIUM SULFITE NH. AMMONIUM CHLORIDE /	5/3/
PO# AF 77726	/ / S / S / - NONE Hg MERCURIC CHLORIDE	§/§/
PROJECT DESCRIPTION 74	An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas
SAMPLER SIGNATURE / AFFILIATION	processing of your sample(s).	completely
	An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	§/
CONTAINER SAMPLING POINT	LABORATORY IN COOLER WITH ICE  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID SO3 SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE - NONE Hg MERCURIC CHLORIDE  An incomplete chain of custody may delay the processing of your sample(s).  ANALYSISTO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
1 Inv Cuttings	19/8 19/5 So C Sb- N Ignitability, Reactive Sulfide & Cyanide	
2	C PCBs, Total Solids	
3 A - fluide, Ign	G Total Volatile Solids	
4 C- Reactivity	C Ammonia-Nitrogen	
5 D-75, 7V5	C Water Leaching Procedure: COD,	
6 E-T. Somple	V C V V Total Solids, Oil & Grease,	
7 F-TOLP BNA Posts.		
8 G-TCIP Herts. St	K-Astm +++	
9 H-7CSP pH	L- A STM 95 0H 36 HOUR TURNAROUND	
10 I - TECP Vols.	M-TOX DAY TURNAROUND	
11 J- ASTM COD, NOTES		
LAB USE ONLY		
विविधानिकारी ।	EMESON SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE SERVICE	E VARIANTE AVANT
RELINQUISHED BY	DATE: TIME: REPETVED BY:	DATE: TIME:
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RELINQUISHED BY:	DATE: TIME: RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:	DATE:, TIME: RECEIVED BY: 00	PRO O D TIME CIS
	The transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer o	Ad Graphics Printing 570-688-0685



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the spaces d sheet as Form 26R,	tely completed. All requestroyided. If additional specified it additional specified it and the date to match the date	pace is necessary, ident per and identify the d	tify Date F	<b>DEPLUSE(</b> Received & G	ONLY eneral Notes
Gener	al Refe	rence 287.54					
Date F	repare		oruary 11, 2011				
		SECTION A.	CLIENT (GENERATOR	R OF THE WASTE) IN	IFORMATI	ON	
	any Nar						
If a Su	bsidiar	ergy USA Inc. y, Name of Parent Comp	anv		· · · ·	EPA Gene	rator ID#
Talism	nan En	ergy Inc.				N/A	
		ling Address Line 1	С	ompany Mailing Addres	ss Line 2		
		d Place dress Last Line – City	State	Zip+4	Phone		Ext
Warre	ndale		PA	15086	(724) 81	4-5300	LAI
_	_	ntact Last Name	First Name	MI		Suffix	
Brown <b>Munic</b>			Dina	County			
Warre				Allegheny			
	ct Phon	e Ext	Contact Email Address				
	814-53		dybrown@talismanusa.d				
			y Mailing Address (noted a eration and storage. <u>Drill (</u>		ring notural as	Yes	⊠ No
the	(0	1-076) well pad site locate	d at 3637 Fallbrook Road, A	umgs are generated do armenia Township, Bradfo	ord County, PA	as uning op \. Waste is	stored in
	ers on s	site.					
Munici	pality	Armenia	County Bradfo		State	<mark>∍ PA</mark>	
Resi	dual	Pasid	SECTION D. WAS I Jal Waste	E DESCRIPTION	Unit of		Time
Waste			escription	Amount	Measure		Frame
810		Drill cuttings (oil and g	jas)	7,364		gal	O Ti
	· · · · · · · · · · · · · · · · · · ·	``	1. GENERAL P	PROPERTIES		ton	One Time
a.	pH Ra	nge 8.8		(based on analyses or k	nowledge)	2,	
b.	Physic	cal State	☐ Liquid Waste (EPA Me ☐ Solid (EPA Method 90 ☐ Gas (ambient tempera	95) ture & pressure)			
C.	Physic	cal Appearance	Color Greyish Black			Slight Petr	oleum
			Number of Solid or Liquid	<del>-</del>			
			Describe each phase of s	eparation. Soil and Ro	ck Fragment	<u> </u>	···
	115.6%		2: CHEMICAL ANALYS				**************************************
a.		sults of a detailed chem ctions, is attached.	ical characterization of the	e waste, as described ir	the	⊠ Yes	☐ No
L							
b.	A deta	iled description of the w	raste sampling method is a			∑ Yes	□ No
C.	A deta	iled description of the wality assurance/quality	raste sampling method is a control procedures employ		es) is		No No
	A deta The quattach	iled description of the wallity assurance/quality ed.		yed by the laboratory(id	es) is	KX	

	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	HMENTS	4 E	
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction	uring and/or pollution co is, is attached.	ntrol processes prod	lucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEME	NT OF RESIDU	AL WASTE		
		1. PROCESSING OR D	ISPOSAL FACILITY(IE	s)		
The ar	ea below (ad.) will accommod	ate the identification of t	wo facilities. Attach	additional sheets	if necessary	•
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispo	sal facility being utili	zed.		
b.	Facility Name	Hyland Landfill				
	Address Line 1	6653 Herdman Road		ALCOHOLD IN		
	Address Line 1					
	Address City State ZIP	Angelica	NY	14709		
	Municipality	Angelica	County	Allegany		
c.	Facility Contact Name	Larry Shilling	·····			
	Title					
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped to p 4,157	rocessing or disposal fa cu yd 🔲 gal	cility in the previous		)	
а.	Solid waste permit number(s) 8-4630-00010	for processing or dispos	sal facility being utili	zed.		
a. b.		for processing or disposements Hakes C&D Landfill	sal facility being utili	zed.		
	8-4630-00010  Facility Name Address Line 1			zed.		
	8-4630-00010  Facility Name Address Line 1 Address Line 1	Hakes C&D Landfill 4376 Manning Ridge I	Road			
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP	Hakes C&D Landfill 4376 Manning Ridge F Painted Post	Road	14870		
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	Hakes C&D Landfill 4376 Manning Ridge F Painted Post Erwin Twp	Road			
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name	Hakes C&D Landfill 4376 Manning Ridge F Painted Post	Road	14870		
b.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	Hakes C&D Landfill 4376 Manning Ridge F Painted Post Erwin Twp Joseph Boyles	Road NY County	14870 Steuben		
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	Hakes C&D Landfill 4376 Manning Ridge F Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271	NY County Email Address	14870 Steuben joe.boyles@case	ella.com	
b.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hakes C&D Landfill 4376 Manning Ridge F Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 rocessing or disposal fa	NY County  Email Address cillity in the previous	14870 Steuben joe.boyles@case year.		
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	Hakes C&D Landfill 4376 Manning Ridge F  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  rocessing or disposal facu yd gal	Road  NY County  Email Address  cility in the previous  Ib \(\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\titt{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\till{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\till{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\till{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\tex{\tex	14870 Steuben joe.boyles@case		
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 2,796	Hakes C&D Landfill 4376 Manning Ridge F  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  rocessing or disposal facuyd gal	NY County  Email Address cillity in the previous	14870 Steuben joe.boyles@case year.		
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 2,796	Hakes C&D Landfill 4376 Manning Ridge F  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  rocessing or disposal facuyd gal  2. Bener for beneficial use?	Road  NY County  Email Address  cility in the previous  Ib  ton	14870 Steuben joe.boyles@case year.		No
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 2,796  Has the waste been approved If "Yes", list the general permi	Hakes C&D Landfill 4376 Manning Ridge F  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  rocessing or disposal facuyd gal  2. Bener for beneficial use?	Road  NY County  Email Address  cility in the previous  Ib  ton  cicial USE  mber.	14870 Steuben joe.boyles@case year.		No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 2,796	Hakes C&D Landfill 4376 Manning Ridge F  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  rocessing or disposal facuyd gal  2. Bener for beneficial use?	Road  NY County  Email Address  cility in the previous  lb  ton  cicial USE  mber.	14870 Steuben joe.boyles@case year.	Yes	⊠ No

a. A detailed description of the manufacturing and/or pollution control processes producing	the waste, as specified in the instructions, is attached.  b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for  Yes  No  N/A a confidentiality claim, as described in the instructions, is attached.  SECTION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name  Chemung County Landfill Address Line 1 Address Line 1 Address City State ZIP  Elmira  NY  14903 Municipality  Elmira  County Chemung  c. Facility Contact Name  Carla Canjar  Title  Environmental Manager  Phone  (585) 797-5941  Email Address  carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year.  1,172				& SCHEMATIC ATTAC			
as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for	as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for  Yes  No  N/A a confidentiality claim, as described in the instructions, is attached.  SEGTION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004  b. Facility Name	a.				sses producing	⊠ Yes □ No	
SECTION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY(IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name	SECTION C. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY(IES)  The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name	b.			ntrol processes prod	ucing the waste,	⊠ Yes □ No	
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004  b. Facility Name	The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004  b. Facility Name	C.				for Yes	□ No ⊠ N/A	
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name	The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.  a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name		SECTI	ON C. MANAGEM	ENT OF RESIDU	AL WASTE		
a. Solid waste permit number(s) for processing or disposal facility being utilized.  8-0728-00004  b. Facility Name	a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004  b. Facility Name	4.3		1. PROCESSING OR I	DISPOSAL FACILITY (IES	s)		
b. Facility Name	b. Facility Name Chemung County Landfill Address Line 1 Address City State ZIP Municipality Elmira NY 14903  C. Facility Contact Name Title Environmental Manager Phone (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172	The ar	rea below (ad.) will accommo	date the identification of	two facilities. Attach	additional sheets i	f necessary.	
Address Line 1 Address City State ZIP Municipality  Elmira County Chemung  Carla Canjar Title Phone  Carla Canjar Title Environmental Manager Phone  Carla Canjar Environmental Manager Title Environmental Manager Title County Chemung  Carla Canjar Environmental Manager Title Environmental Manager Title County Chemung  Carla Canjar County Chemung  Carla Canjar County Chemung  Carla Canjar County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Chemung  County Carla Canjar County Landjill being utilized.  100361  b. Facility Name Address Line 1 Address Line 1 Address Line 1	Address Line 1 Address City State ZIP Address City State ZIP Municipality  C. Facility Contact Name Title Phone  Carla Canjar  Environmental Manager Phone  City State Street  Environmental Manager Fine County  Carla Canjar  Environmental Manager Fine County  Email Address  Carla.canjar@casella.com  Carla Canjar  Environmental Manager Fine County  Carla Canjar  Email Address  Carla.canjar@casella.com  Carla Canjar  Environmental Manager Fine County  Carla Canjar  Email Address  Carla.canjar@casella.com  Carla Canjar  Environmental Manager Fine County Landjill in the previous year.  1,172  Cu yd  Gal  Bob ton  Check one)  Check one)  Address Line 1  19 Ness Lane  Address Line 1  Address Line 1	a.		) for processing or dispo	sal facility being utiliz	zed.		
Address Line 1 Address City State ZIP Municipality Elmira County Chemung  Carla Canjar Title Phone City State Variation Environmental Manager Phone City State Variation Environmental Manager For its State Shipped to processing or disposal facility in the previous year. 1,172 Cuyd Gal Box State Shipped to processing or disposal facility being utilized. 100361  b. Facility Name Address Line 1 Address Line 1 Address Line 1	Address Line 1 Address City State ZIP Municipality Elmira County Chemung  C. Facility Contact Name Title Phone (585) 797-5941 Email Address Carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172 Cu yd Gal Bb Connected to processing or disposal facility being utilized.  Solid waste permit number(s) for processing or disposal facility being utilized.  b. Facility Name Address Line 1 Address Line 1 Address Line 1	b.	Facility Name	Chemung County Lar	ndfill			
Address City State ZIP Municipality  Elmira  County Chemung  Carla Canjar  Title Phone  Carla Canjar  Environmental Manager (585) 797-5941  Email Address Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com  Carla.canjar@casella.com	Address City State ZIP Municipality  Elmira  County Chemung  Carla Canjar  Title Phone  Carla Canjar  Environmental Manager (585) 797-5941  Email Address Carla.canjar@casella.com  Carla Canjar  Environmental Manager (585) 797-5941  Email Address Carla.canjar@casella.com  Carla Canjar  Environmental Manager (585) 797-5941  Email Address Carla.canjar@casella.com  Carla Canjar  Environmental Manager (585) 797-5941  Email Address Carla.canjar@casella.com  Check one)  Address Line 1  McKean County Landfill  19 Ness Lane  Address Line 1  Address Line 1			1690 Lake Street				
Municipality  Elmira  County Chemung  Carla Canjar  Title Environmental Manager Phone  Cisto 797-5941 Email Address Carla.canjar@casella.com  County Chemung  Carla Canjar  Environmental Manager  Email Address Carla.canjar@casella.com  County Check one  Environmental Manager  Email Address Carla.canjar@casella.com  County Casella.com  County Check one  Email Address Carla.canjar@casella.com  County Sear.  1,172  County double gal book one County Landfill  Address Line 1  Address Line 1  Address Line 1	Municipality     Elmira     County     Chemung       c.     Facility Contact Name Title     Carla Canjar       Phone     Environmental Manager       d.     Volume of waste shipped to processing or disposal facility in the previous year.       1,172     cu yd     gal     lb     ton     (check one)       a.     Solid waste permit number(s) for processing or disposal facility being utilized.       100361       b.     Facility Name Address Line 1     McKean County Landfill       Address Line 1     19 Ness Lane							
c. Facility Contact Name Title Phone (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172	c. Facility Contact Name Title Phone Carla Canjar Environmental Manager (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172 Cu yd Gal Bb ton (check one)  a. Solid waste permit number(s) for processing or disposal facility being utilized. 100361  b. Facility Name Address Line 1 Address Line 1 Address Line 1		-					
Title Environmental Manager Phone (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172	Title Environmental Manager  Phone (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year.  1,172			Elmira	County	Chemung		
Phone (585) 797-5941 Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 1,172	Phone  (585) 797-5941  Email Address carla.canjar@casella.com  d. Volume of waste shipped to processing or disposal facility in the previous year.  1,172  cu yd gal b ton (check one)  a. Solid waste permit number(s) for processing or disposal facility being utilized.  100361  b. Facility Name Address Line 1  Address Line 1  Address Line 1	c.	<del>-</del>					
d. Volume of waste shipped to processing or disposal facility in the previous year.  1,172	d. Volume of waste shipped to processing or disposal facility in the previous year.  1,172							
1,172	1,172		Phone	(585) 797-5941	Email Address	carla.canjar@cas	ella.com	
b. Facility Name McKean County Landfill Address Line 1 19 Ness Lane Address Line 1	b. Facility Name McKean County Landfill Address Line 1 19 Ness Lane Address Line 1	a						
Address Line 1 19 Ness Lane Address Line 1	Address Line 1 19 Ness Lane Address Line 1	u.		. ,		, , ,		
Address Line 1	Address Line 1		Solid waste permit number(s	. ,		, , ,		********
		a.	Solid waste permit number(s 100361	) for processing or dispo	sal facility being utiliz	, , ,		
Address City State 7IP Kana DA 16735	I Address City State 7ID I/ans DA 4070E	a.	Solid waste permit number(s 100361 Facility Name Address Line 1	for processing or dispo	sal facility being utiliz	, , ,		
		a.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1	McKean County Land	sal facility being utiliz	zed.		
	Municipality Sergeant Lwp County McKean	a.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address City State ZIP	McKean County Land 19 Ness Lane Kane	sal facility being utiliz	zed. 16735		
		a.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	McKean County Land 19 Ness Lane  Kane Sergeant Twp	sal facility being utiliz	zed.		
Tifle	c. Facility Contact Name Mike Manderfeld	a. b.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name	McKean County Land 19 Ness Lane  Kane Sergeant Twp	sal facility being utiliz	zed. 16735		
	c. Facility Contact Name Mike Manderfeld Title	a. b.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld	sal facility being utiliz	16735 McKean		
Phone (814) 778-9931 Email Address manderfeld@gmail.com	c. Facility Contact Name Title Phone  Mike Manderfeld  Email Address manderfeld@gmail.com	a. b.	Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931	sal facility being utilize fill PA County Email Address	16735 McKean manderfeld@gma	ail.com	
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year.	c. Facility Contact Name Mike Manderfeld  Title Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year.	a. b.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factors	sal facility being utilize  Fill  PA  County  Email Address  acility in the previous	16735 McKean manderfeld@gmayear.	ail.com	
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  Mike Manderfeld  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal faculy designed and gal	Fill  PA County  Email Address acility in the previous	16735 McKean manderfeld@gmayear.	ail.com	
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal faculy gal	Fill  PA County  Email Address acility in the previous	16735 McKean manderfeld@gmayear.		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year.  21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal faculy gal	Fill  PA County  Email Address acility in the previous	16735 McKean manderfeld@gmayear.		
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Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 21  Has the waste been approved	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor yd gal  2 BENE	FICIAL USE	16735 McKean manderfeld@gmayear.		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 21  Has the waste been approved	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor yd gal  2 BENE	FICIAL USE	16735 McKean manderfeld@gmayear.		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c. d.	Solid waste permit number(sin 100361)  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor beneficial use?	PA County  Email Address acility in the previous	16735 McKean manderfeld@gmayear.		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c. d.	Solid waste permit number(sin 100361)  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part of the part	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor beneficial use?	PA County  Email Address acility in the previous	16735 McKean manderfeld@gmayear.		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c. d.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 21  Has the waste been approved If "Yes", list the general permits.	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor beneficial use?  If or beneficial use?  In the previous year	FICIAL USE	16735 McKean manderfeld@gmayear. (check one)		
Phone (814) 778-9931 Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	c. Facility Contact Name Title Phone  (814) 778-9931  Email Address manderfeld@gmail.com  d. Volume of waste shipped to processing or disposal facility in the previous year. 21	a. b. c. d.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 21  Has the waste been approved If "Yes", list the general permits.	McKean County Land 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor beneficial use?  If or beneficial use?  In the previous year	FICIAL USE	16735 McKean manderfeld@gmayear. (check one)		

## SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required In Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year __ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title Environmental Specialist Dina Brown Date Signature

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10041885

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley WO#: 10041885

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

PAGE: 1 of 1

Horseheads, NY 14845

PO#:

**TEST REPORT** 

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

76

RECEIVED FOR LAB BY: DLM2 DATE: 04/14/2010 10:47 Page 1 of 1

MPLE: Air Cuttings	L	ab ID: 10041885-001A	Compo	site		
SAMPLED BY: SG	Sample	Time: 04/12/2010 17:30				
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	l Analysi
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/15/10 11:30	04/15/10	RMD-0
Sodium	658 mg/Kg	EPA 6010B	103	04/16/10 15:25	04/19/10	RMD-0
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-0
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/15/10 11:45	04/15/10	RMD-0
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-0
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-0
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-0
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-0
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-0
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/15/10 11:45	04/15/10	RMD-0
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/15/10 11:45	04/15/10	RMD-
Zinc - TCLP extracted	0.297 mg/L	EPA 6010B	0.200	04/15/10 11:45	04/15/10	RMD-0
pH	8.81 @ 25.2 °C	EPA 9045D		04/20/10 13:25	04/20/10	SMH-0
Total Petroleum Hydrocarbons	< 330 mg/Kg	EPA 9071	330	04/20/10 8:30	04/20/10	
Chloride	621 mg/Kg	EPA 300.0	50.0	04/15/10 15:51	04/16/10	HDP-0

Sample Note: The temperature of the extraction room exceeded the range of 23 ± 2°C

### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA

	//		
MANAGER	Carri M. Oarles	DATE:	4/22/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074059

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS:

337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#:

PO#:

10074059

PAGE: 1 of 1

AF76709

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

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DATE: 07/26/2010 15:15

Page 1 of 1

RECEIVED FOR LAB BY: DLM2	DATE:	07/26/2010 15:15			Pa	age 1 of 1
SAMPLE: Inv. Cuttings & Gypsum SAMPLED BY: SG	Samp	Lab ID: 10074059-001A le Time: 07/26/2010 10:45	Compo SLOQ	site		
<u>Test</u> Total Petroleum Hydrocarbons Sample Note: Analysis performed by	<u>Result</u> 122000 mg/Kg y Microbac-Erie	<u>Method</u> EPA 9071	170	<u>Analysis Start</u> 07/27/10 12:00	Analysis End 07/27/10	Analyst *
SAMPLE: Inv. Cuttings & Gypsum SAMPLED BY: SG	Samp	Lab ID: 10074059-001B le Time: 07/26/2010 10:45	Compo	site		
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	14.0 %	Moisture Calc.	0.01	07/26/10 10:30	07/27/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/26/10 16:20	07/26/10	IC-SA
рН	11.27@20.8°C	EPA 9045C		07/27/10 12:20	07/27/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cutt	ings & Gypsum	Lab ID: 10074059-001D	Grab			
SAMPLED BY: SG	Sampl	e Time: 07/26/2010 10:45	81.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0010 mg/L	EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Copper - TCLP extracted	0.118 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Nickel - TCLP extracted	0.201 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	s EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

	/ †	· ·		
MANAGER	Carri	M. Davis	DATE	: 7/30/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074060

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

PAGE: 1 of 1

PO#: AF76709

10074060

PWS ID#

WO#:

PHONE:

(607) 562-4000

FAX: (607) 562-4001

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RECEIVED FOR LAB BY: DLM2 DATE: 07/26/2010 15:15 Page 1 of 1

SAMPLE: Inv. Cuttings	•	Lab ID: 10074060-001A	Compo	site		
SAMPLED BY: SG	Sar	Sample Time: 07/26/2010 10:45				
<u>Test</u> Total Petroleum Hydrocarbons	Result 111000 mg/Kg	Method EPA 9071	SLOQ	Analysis Start 07/27/10 12:00	Analysis End 07/27/10	Analyst *
Sample Note: Analysis performed by M	/licrobac-Erie					
SAMPLE: Inv. Cuttings		Lab ID: 10074060-001B	Compo	site		
SAMPLED BY: SG	Sar	mple Time: 07/26/2010 10:45				
			<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	9.69 %	Moisture Calc.	0.01	07/26/10 10:30	07/27/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/26/10 16:25	07/26/10	IC-SA
рН	10.30@21.0°C	EPA 9045C		07/27/10 12:20	07/27/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cuttin	gs	Lab ID: 10074060-001D	Compo	site		1-1-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0
SAMPLED BY: SG	Sar	nple Time: 07/26/2010 10:45				
			<u>SLOQ</u>			

				SLOQ			
<u>Test</u>	<u>Result</u>		<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0010 mg/L		EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Nickel - TCLP extracted	0.150 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	s	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV

### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Spike Recovery outside accepted recovery limits

MANAGER		in Davis	DA		7/30/2010
WIN HAN COLIN	and	771.		`'	7,20,2020

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10074062

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEAT DEDART

WO#:

10074062

PAGE:

1 of 1

PO#:

PWS ID#

AF76709

PHONE: (607) 562-4000 **TEST REPORT** 

FAX:

(607) 562-4000

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DATE: 07/26/2010 15:15

Page 1 of 1

SAMPLE: Inv. Cuttings-Raw Lab ID: 10074062-001A Composite SAMPLED BY: SG Sample Time: 07/26/2010 10:45 **SLOQ** Analysis End Analyst * Test Result Method Analysis Start EPA 9071 07/27/10 12:00 07/27/10 Total Petroleum Hydrocarbons 118000 mg/Kg Sample Note: Analysis performed by Microbac-Erie SAMPLE: Inv. Cuttings-Raw Lab ID: 10074062-001B Composite SAMPLED BY: SG Sample Time: 07/26/2010 10:45 SLOQ Test Result Method **Analysis Start** Analysis End Analyst * Moisture 11.5 % Moisture Calc. 0.01 07/26/10 10:30 07/27/10 NFM-SA Free Liquid < 0.1 % EPA 9095A 07/26/10 16:30 07/26/10 IC-SA EPA 9045C 07/27/10 12:20 07/27/10 11.0@20.8°C NFM-SA pН SAMPLE: TCLP Leachate of Inv. Cuttings-Raw Lab ID: 10074062-001D Grab

SAMPLED BY: SG	Samp	le Time: (	07/26/2010 10:45				
				<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>		<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0010 mg/L		EPA 7470A	0.0010	07/29/10 9:00	07/29/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	07/29/10 9:50	07/29/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Nickel - TCLP extracted	0.143 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	S	EPA 6010B	0.500	07/29/10 9:50	07/29/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	07/29/10 9:50	07/29/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	07/29/10 9:50	07/29/10	GSR-CV

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- S Spike Recovery outside accepted recovery limits

	/ /	· ·			
MANAGER	Cari	M. Davis	DA ⁻	TE:	7/30/2010



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

## FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legib attache	oly printed in the spaces   d sheet as Form 26R, r	ely completed. All requi provided. If additional sp eference the item numb s needs to match the date	ace is necessary, ider er and identify the o	ntify Da	CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	JSE C	ONLY eneral Notes
Genera	al Refer	rence 287.54						
Date P	repared	d/Revised Febr	uary 11, 2011					
•			CLIENT (GENERATOR	ROF THE WASTE) II	NFORMA	TION		
	any Nar	<b>ne</b> ergy USA Inc.						
		y, Name of Parent Compa	inv			EPA	Gener	ator ID#
Talism	an Ene	ergy Inc.				N/A		
		ling Address Line 1	C	ompany Mailing Addre	ess Line 2			
		d Place dress Last Line – City	State	Zip+4	Phone			Ext
Warre		iros Lust Line Ony	PA	15086		814-530	0	LAL
	-	ntact Last Name	First Name	MI	, ,	Suffix	(	
Brown			Dina	County				****
Munici Warre				Allegheny				
	t Phon	e Ext	Contact Email Address					
	814-53		dybrown@talismanusa.c					
			Mailing Address (noted a ration and storage. Drill o		urina natura	Lace drilli	Yes	⊠ No
the			i at 2871 Fallbrook Road, A					
	ers on s	site.						
Munici	pality	Armenia	County Bradfo			tate	<u>PA</u>	
Resi	dual		SECTION B. WAST al Waste	E DESCRIBITION	Unit	of	Τ	Time
Waste		Residue		1		UI	1	Time
810		Code De	scription	Amount	Meas	ure		Frame
			scription	Amount 8,477	u yd	☐ gal		
		Code De	scription as)	8,477				One Time
a.	pH Ra	Drill cuttings (oil and ga	scription as) 1. General P	8,477	☐ cu yd ☐ lb	☐ gal		
a. b.		Drill cuttings (oil and ga	1. GENERAL P  to 12.24  Liquid Waste (EPA Me	8,477 ROPERTIES (based on analyses or lithod 9095)	☐ cu yd ☐ lb	☐ gal		
		Drill cuttings (oil and ga	as)  1. GENERAL P  to 12.24  Liquid Waste (EPA Me  Solid (EPA Method 909	8,477 ROPERTIES (based on analyses or lithod 9095) 95)	☐ cu yd ☐ lb	☐ gal		
b.	Physic	Drill cuttings (oil and gange 9.13 cal State	1: GENERAL P  1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: January 1: Janua	8,477  ROPERTIES (based on analyses or left) (based on analyses or left) (based on analyses or left) (based on analyses or left) (based on analyses or left) (based on analyses or left)	□ cu yd □ lb knowledge)	☐ gal ☑ ton		One Time
	Physic	Drill cuttings (oil and gainge 9.13 cal State cal Appearance	1. GENERAL P  1. GENERAL P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  2. JUNE P  2. JUNE P  3. JUNE P  4. JUNE P  4. JUNE P  5. JUNE P  6. JU	8,477  ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure) Odd	cu yd lb cnowledge)	☐ gal	Petro	One Time
b.	Physic	Drill cuttings (oil and gange 9.13 cal State cal Appearance	1. GENERAL P 1. June 12.24 1. Liquid Waste (EPA Me 2. Solid (EPA Method 909 3. Gas (ambient temperation of Solid or Liquid Number of Solid or Liquid	8,477  ROPERTIES (based on analyses or Ithod 9095) 95) ture & pressure) Odd Phases of Separation	cu yd lb  knowledge)  cr Earth n One	☐ gal ☑ ton	Petro	One Time
b.	Physic	Drill cuttings (oil and gange 9.13 cal State cal Appearance	1. GENERAL P  1. GENERAL P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  1. JUNE P  2. JUNE P  2. JUNE P  3. JUNE P  4. JUNE P  4. JUNE P  5. JUNE P  6. JU	8,477  ROPERTIES (based on analyses or Ithod 9095) 95) ture & pressure) Odd Phases of Separation	cu yd lb  knowledge)  cr Earth n One	☐ gal ☑ ton	Petro	One Time
b.	Physic	Drill cuttings (oil and gainge 9.13 cal State	1. GENERAL P  1. GENERAL P  1. J.	8,477  ROPERTIES (based on analyses or left) (thod 9095) (95) (ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro	cu yd lb cnowledge)  or Earth n One ock Fragme	☐ gal ☑ ton  y / Slight	- 572	One Time
b.	Physic Physic The re-	Drill cuttings (oil and gainge 9.13 cal State cal Appearance sults of a detailed chemications, is attached.	1. GENERAL P  1. GENERAL P  1. J.	8,477  ROPERTIES (based on analyses or left thod 9095) 95) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro SIS ATTACHMENTS waste, as described in	cu yd lb  knowledge)  or Earth One ock Fragme	gal on y / Slight	Yes	One Time
b. c. a. b.	Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Phy	Drill cuttings (oil and gainge 9.13 cal State cal Appearance sults of a detailed chemications, is attached. iled description of the war	1. GENERAL P  1. GENERAL P  1. J.	8,477  ROPERTIES (based on analyses or left thod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro SIS ATTACHMENTS waste, as described intached.	cu yd lb cnowledge)  or Earth n One ock Fragme n the	gal Ston  y / Slight  ents	Yes Yes	One Time
b. c.	Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Phy	Drill cuttings (oil and gainge 9.13 cal State cal Appearance sults of a detailed chemications, is attached, illed description of the water allity assurance/quality c	1. GENERAL P  1. GENERAL P  1. J.	8,477  ROPERTIES (based on analyses or left thod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro SIS ATTACHMENTS waste, as described intached.	cu yd lb cnowledge)  or Earth n One ock Fragme n the	gal Ston  y / Slight  ents	Yes	One Time
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12.23	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	HMENTS				
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	No		
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,   Yes  No  as specified in the instructions, is attached.							
C.	c. If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.							
	SECTI	ON C. MANAGEMI	INT OF RESIDU	AL WASTE				
	- Andrews		DISPOSAL FACILITY(IE					
The ar	ea below (ad.) will accommo	date the identification of	two facilities. Attach	additional sheets	if necessary	•		
a.	Solid waste permit number(s 8-4630-00010	for processing or dispo	sal facility being utili	zed.				
b.	Facility Name	Hakes C&D Landfill						
	Address Line 1	4376 Manning Ridge	Road					
	Address Line 1							
	Address City State ZIP	Painted Post	NY NY	14870				
	Municipality	Erwin Twp	County	Steuben				
C.	Facility Contact Name	Joseph Boyles		,,-				
	Title							
	Phone	(607) 937-6044 (585) 797-5941	Email Address	joe.boyles@case	lla.com			
d.	Volume of waste shipped to   3,701	orocessing or disposal fa cu yd gal	icility in the previous					
a.	Solid waste permit number(s 9-0232-00003	for processing or dispo	sal facility being utili	zed.				
b.	Facility Name	Hyland Landfill						
	Address Line 1	6653 Herdman Road						
	Address Line 1							
	Address City State ZIP	Angelica	NY	14709				
	Municipality	Angelica	County	Allegany		1000		
c.	Facility Contact Name	Larry Shilling						
	Title							
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com			
d.	Volume of waste shipped to							
	3,583	cu yd 📗 gal	☐ lb     ton	(check one)				
in the second			FICIAL USE					
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No		
	If "Yes", list the general perm	it number or approval nu	ımber.					
b.	Volume of waste beneficially	· · · · · · · · · · · · · · · · · · ·	10000					
	0	cu yd gal	∐ lb ∐ ton	(check one)				

	3. Process Description & Schematic Attachments							
a.	A detailed description of the the waste, as specified in the		lution control proce	esses producing	⊠ Yes	☐ No		
b.	A schematic of the manufacture as specified in the instruction		trol processes proc	ducing the waste,	⊠ Yes	☐ No		
C.	If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.							
	SECTI	ON C. MANAGEME	NT OF RESIDU	IAL WASTE				
,		1. Processing or Di	SPOSAL FACILITY(IE	s) :	27.79.0	(2,31),45		
The ar	ea below (ad.) will accommo				if necessary	·		
a.	Solid waste permit number(s 8-0728-00004	) for processing or dispos	al facility being util	ized.				
b.	Facility Name	Chemung County Land	lfill					
	Address Line 1	1690 Lake Street						
	Address Line 1		NOZ.	44000				
	Address City State ZIP Municipality	Elmira Elmira	NY County	14903 Chemung		·····		
			County	Chemung		<u> </u>		
C.	Facility Contact Name Title	Carla Canjar						
		Environmental Manage						
			Email Addroce	acric conject@co.				
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com			
d.	Volume of waste shipped to 1,172	processing or disposal fac	ility in the previous	s year. (check one)				
d. a.	Volume of waste shipped to	processing or disposal fac	ility in the previous	s year. (check one)				
	Volume of waste shipped to 1,172  Solid waste permit number(s	processing or disposal face   cu yd	cility in the previous  to ton  al facility being utili	s year. (check one)				
a.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1	processing or disposal face cuyd gal gal for processing or dispos	cility in the previous  to ton  al facility being utili	s year. (check one)				
a.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1	processing or disposal factory cuyd gal gal solution gal solution gal gal solution gal gal gal gal gal gal gal gal gal gal	illity in the previous  Ib	s year. (check one) ized.				
a.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP	processing or disposal faction cu yd gal gal solono gal gal gal gal gal gal gal gal gal gal	illity in the previous to ton al facility being utili	(check one)				
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	processing or disposal faction cu yd gal gal solono gal gal gal solono gal gal gal gal gal gal gal gal gal gal	illity in the previous  Ib	s year. (check one) ized.				
a.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name	processing or disposal faction cu yd gal gal solono gal gal gal gal gal gal gal gal gal gal	illity in the previous to ton al facility being utili	(check one)				
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	processing or disposal factory description or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposed for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for processing for p	ility in the previous book ton al facility being utili ll PA County	(check one) ized.  16735  McKean	)			
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name  Address Line 1  Address Line 1  Address City State ZIP  Municipality  Facility Contact Name  Title  Phone	processing or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory	illity in the previous  Ib	(check one) ized.  16735 McKean  manderfeld@gm	)			
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	processing or disposal factory description or disposed for processing or disposed for processing or disposed for processing or disposed for processing or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description descrip	illity in the previous    lb   ton     al facility being utility     PA     County     Email Address     lb   ton	(check one) ized.  16735 McKean  manderfeld@gm	ail.com			
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 21	processing or disposal factory description or disposal factory for processing or disposal factory for processing or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description descr	illity in the previous    lb   ton     al facility being utility     PA     County     Email Address     lb   ton	(check one) ized.  16735 McKean  manderfeld@gm	ail.com			
a. b.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	processing or disposal factory description or disposal factory for processing or disposal factory for processing or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description or disposal factory description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description description descripti	illity in the previous    lb   ton     al facility being utility     PA     County     Email Address     lb   ton	(check one) ized.  16735 McKean  manderfeld@gm	nail.com	No		
a. b. c.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 21  Has the waste been approved if "Yes", list the general permits of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of	processing or disposal factory deprecasing or disposed for processing or disposed for processing or disposed factory disposed for beneficial use?  processing or disposal factory deprecasing or disposal factory disposal factory deprecasing or disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal f	Ility in the previous    b	(check one)  16735  McKean  manderfeld@gm	nail.com	No No		
a. b. c.	Volume of waste shipped to 1,172  Solid waste permit number(s 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 21  Has the waste been approved	processing or disposal factory deprecasing or disposed for processing or disposed for processing or disposed factory disposed for beneficial use?  processing or disposal factory deprecasing or disposal factory disposal factory deprecasing or disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal factory disposal f	Ility in the previous    b	(check one) ized.  16735 McKean  manderfeld@gm	nail.com	No No		

SECTION D. CERTIFICATION								
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.								
Check th	Check the following, if applicable:							
	certify the information and has not chang	•	ired in Section B-1, General Properties was supplied to the Department for the year					
F	orm Submitted:		Form 26R					
			Other (specify)					
0	Date Submitted:							
	certify the information		ired in Section B-2, Chemical Analysis was supplied to the Department for the year					
F	orm Submitted:		Form 26R					
			Other (specify)					
	Date Submitted:							
_	certify the information r		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.					
F	orm Submitted:		Form 26R					
			Other (specify)					
	Date Submitted:							
Name of	Responsible Official		Title Environmental Specialist					
Dina Bro	own 🗸	0	10					
Signatur	e //h	<u>Z</u>	Sw Date 2/25/11					
			·					

LAB ID # 11216 LAB ID # 11827

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10030703

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#: 10030703

PAGE: 1 of 1

PO#:

PWS ID#

PHONE: FAX:

(607) 731-0145 (607) 562-4001

NTSW TCLP Metals/TPH/pH/%Moisture

RECEIVED FOR LAB BY: WCB DATE: 03/03/2010 9:38

Page 1 of 1

RECEIVED FOR LAB B1: WCB	DAI	E. 03/03/2010 9:38				age I of I
SAMPLE: Air Cuttings P-1		Lab iD: 10030703-001A	Compo	site		
SAMPLED BY: SG	Sar	mple Time: 03/01/2010 11:45				
Test	Result	Method	SLQQ	Analysis Start	Analysis En	d Analyst *
pH	9.44 @ 25.9°C	EPA 9045D		03/08/10 14:37	03/08/10	NC-CV
Chloride	74.3 mg/Kg	EPA 300.0	50.0	03/10/10 14:03	03/11/10	HDP-CV
Total Petroleum Hydrocarbons	< 170 mg/Kg	EPA 1664A	170	03/16/10 13:30	03/16/10	DTG-CV
SAMPLE: TCLP Leachate of Air Cut	ttings P-1	Lab ID: 10030703-001C	Compo	site	· · · · ·	
SAMPLED BY: SG	Sar	nple Time: 03/01/2010 11:45				
Test	Result	Mathad	SLOQ	Anaturala Otari	A 1 1 - 1 - 1	
Mercury - TCLP extracted	< 0.0008 mg/L	Method EPA 7470A	0.0000	Analysis Start	Analysis End	
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.0008	03/11/10 8:30	03/12/10	KW-CV
Barium - TCLP extracted	•		0.500	03/10/10 13:40	03/11/10	RMD-CV
	< 10.00 mg/L	EPA 6010B	10.00	03/10/10 13:40	03/11/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	03/10/10 13:40	03/11/10	RMD-CV

### REMARKS:

The above test procedures meet all the require	rements of NELAC	and relate only to	these samples.
* CV = Benchmark Analytics Inc. Center Va			

MANAGER	Carrie M. Davis	DATE:	3/17/2010
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CHAIN OF CUSTODY	_			k Analytics, Inc.		PAGEOF	=
REPORT TO: Talisman	Eastern Division 2566 Pennsylvania Avenue • Sayre, PA 18840						
	Phone: (570) 888-0169				ARE SPECIAL DETECTION LIMITS		
	Fax:			(570) 888-0717		NEEDED: YES / (NO)	
	AFTER COLLECTION TRANSPORT		OW DRINKING W	TTER SIL SLUDGE	RESULTS ARE BEING USED FOR:	YES (NO)	
			GW GROUND WA	ATER SO SOIL FATER HZ HAZARDOUS	NYDOH (NYDEC) (RADEP)		
CONTACT Steep Gralky			SW SURFACE WA		LANDFILL		
PH# 607-731-0/45	TO				IAL OTHER	IFYES, PLEASE ATTACH F	IEQUIREMENTS
FAX#	LABORATORY DROXIDE PWS ID#						
BILL TO: Talis May	WITH ICE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE CHLORIDE Sample Point						
PO#	<del></del>	<b>-</b>	W/U#:	10030703	E Sample Point_		
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SAMPLER SIGNATURE / AFFILIATION	] /\$ /\$  \$	// § / §		ANALYSIS TO BE	RPOPOSIES		areas completely.
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1 Air Cuttings P-1	3/1 1145 50 (	24	)	TPH PH	,	100 000 800 000 000 000	001 A - C
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6				B - Total San	uple		
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						Ad Gu	phics Printing 570-668-0685

LAB ID # 11216 LAB ID # 11827

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10064652

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

PHONE:

FAX:

NAME:

Steve Gridley

(607) 562-4000

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#: 10064652

PAGE: 1 of 1

PO#:

PWS ID#

(607) 562-4001 Truck Accident 030810

RECEIVED FOR LAB BY: DLM2

DATE: 06/29/2010 14:40

Page 1 of 1

Result 46.1 % < 0.1 % 2.24@25.3°C	Lab ID: 10064652-001A ple Time: 06/28/2010 10:00  Method Moisture Calc. EPA 9095A EPA 9045C  Lab ID: 10064652-001B ple Time: 06/28/2010 10:00	SLOQ 0.01 0.1 Compos	Analysis Start 06/29/10 15:55 06/29/10 16:00 06/29/10 15:23	Analysis End 06/30/10 06/29/10 06/29/10	Analyst * IC-SA IC-SA MED-SA
Result 46.1 % < 0.1 % 2.24@25.3°C	Method Moisture Calc. EPA 9095A EPA 9045C Lab ID: 10064652-001B	0.01	06/29/10 15:55 06/29/10 16:00 06/29/10 15:23	06/30/10 06/29/10	IC-SA IC-SA
46.1 % < 0.1 % 2.24@25.3°C	Moisture Calc. EPA 9095A EPA 9045C  Lab ID: 10064652-001B	0.01	06/29/10 15:55 06/29/10 16:00 06/29/10 15:23	06/30/10 06/29/10	IC-SA IC-SA
< 0.1 % 2.24@25.3°C	EPA 9095A EPA 9045C Lab ID: 10064652-001B	0.1	06/29/10 16:00 06/29/10 15:23	06/29/10	IC-SA
2.24@25.3°C	EPA 9045C Lab ID: 10064652-001B		06/29/10 15:23		
	Lab ID: 10064652-001B	Compo		06/29/10	MED-SA
Sam		Compo	eita		
Sam	nle Time: 06/28/2010 10:00		oue.		-
	pio 11110. 00/20/2010 10.00	01.00			
Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
<del></del>					7 triary of
0 0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		0.70.170.0.00	07701710	
Pia 56 Bin's	Lah ID: 10064652-001D	Compos	site		
-		Compo			
Carr	pio 11110. 00/20/2010 10:00	<u>SLOQ</u>			
<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst '
< 0.0008 mg/L	EPA 7470A	0.0008	06/29/10 11:15	07/01/10	KW-CV
< 0.500 mg/L	EPA 6010B	0.500	07/01/10 8:45	07/01/10	GSR-C
< 10.00 mg/L	EPA 6010B	10.00	07/01/10 8:45	07/01/10	GSR-C\
< 0.100 mg/L	EPA 6010B	0.100	07/01/10 8:45	07/01/10	GSR-C\
< 0.500 mg/L	EPA 6010B	0.500	07/01/10 8:45	07/01/10	GSR-C\
< 0.100 mg/L	EPA 6010B	0.100	07/01/10 8:45	07/01/10	GSR-C\
< 0.500 mg/L	EPA 6010B	0.500	07/01/10 8:45	07/01/10	GSR-C\
< 0.100 mg/L	EPA 6010B	0.100	07/01/10 8:45	07/01/10	GSR-C\
< 0.500 mg/L	EPA 6010B	0.500	07/01/10 8:45	07/01/10	GSR-C\
< 0.100 mg/L	EPA 6010B	0.100	07/01/10 8:45	07/01/10	GSR-C\
< 0.200 mg/L	EPA 6010B	0.200	07/01/10 8:45	07/01/10	GSR-C\
	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.100 mg/L < 0.200 mg/L	10200 mg/Kg robac-Erie  S Rig 56 Bin's Lab ID: 10064652-001D Sample Time: 06/28/2010 10:00  Result Method < 0.0008 mg/L EPA 6010B < 10.00 mg/L EPA 6010B < 0.500 mg/L EPA 6010B < 0.100 mg/L EPA 6010B < 0.500 mg/L EPA 6010B < 0.100 mg/L EPA 6010B	### Top	### Top	### Topo

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

	$\mathcal{L}$		
MANAGER	Carrie M. Davis	DATE:	7/2/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10071871

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PAGE: 1 of 1

PWS ID#

WO#:

PO#: AF76317

10071871

**TEST REPORT** 

PHONE: FAX:

(607) 562-4000 (607) 562-4001

77 Well

PECEIVED FOR LAR RV: WCR

RECEIVED FOR LAB BY: WCB	DATE:	07/13/2010 13:15			P	age 1 of 1
SAMPLE: Inv. Cuttings		Lab ID: 10071871-001A	Grab			
SAMPLED BY: SG	Sample	e Time: 07/12/2010 12:05	Reg			
<u>Test</u>	<u>Result</u>	<u>Method</u>	Limit	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	73700 mg/Kg	EPA 9071		07/15/10 0:00	07/15/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: Inv. Cuttings		Lab ID: 10071871-001B	Grab			
SAMPLED BY: SG	Sample	e Time: 07/12/2010 12:05				
Test	Result	Method	<u>Reg</u> Limit	Analysis Start	Analysis End	Analyst *
Moisture	14.4 %	Moisture Calc.	LIIIII	07/14/10 14:30	07/15/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A		07/14/10 8:30	07/14/10	IC-SA
pH	9.27@22.4°C	EPA 9045C		07/14/10 12:23	07/14/10	DLM-SA
SAMPLE: TCLP Leachate of Inv. Cu	uttinas	Lab ID: 10071871-001D	Grab			
SAMPLED BY: SG	_	Time: 07/12/2010 12:05				
T4	Danill	1 4 - 4 lo d	Reg	Amelia Otaul	A	A 1 1 *
<u>Test</u> Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	<u>Method</u> EPA 7470A	<u>Limit</u> 0.2	Analysis Start 07/16/10 9:00	Analysis End 07/18/10	Analyst * RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	07/16/10 9:00	07/16/10	
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	100	07/16/10 15:00	07/17/10	RMD-CV RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	1	07/16/10 15:00	07/17/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	07/16/10 15:00	07/17/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	3	07/16/10 15:00	07/17/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	07/16/10 15:00	07/17/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	J	07/16/10 15:00	07/17/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	1	07/16/10 15:00	07/17/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	5	07/16/10 15:00	07/17/10	RMD-CV
Zinc - TCLP extracted	ŭ	L EPA 6010B	J	07/16/10 15:00	07/17/10	RMD-CV
				2	0,,,,,	I MID-OV

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Davis	4	DATE:	7/20/2010	

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073110

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

(607) 562-4000 (607) 562-4001

WO#:

10073110

PAGE:

1 of 2

PO#: AF76323

PWS ID#

PHONE:

FAX:

RECEIVED FOR LAB BY: WCB	DATE:	07/20/2010 13:25			Pa	age 1 of 2
SAMPLE: Inv. Clean Soil		Lab ID: 10073110-001A	Compo	site		
SAMPLED BY: SG	Sampl	e Time: 07/13/2010 18:40	SLOQ			
Test	Result	Method	SLUQ	Analysis Start	Analysis End	Analyst *
Sodium	< 123 mg/Kg-dry	EPA 6010B	123	07/22/10 7:00	07/22/10	GSR-CV
Chloride	66.2 mg/Kg-dry	EPA 300.0	51.8	07/21/10 12:33	07/22/10	HDP-CV
MBAS, calculated as LAS, mol wt 342 g/mol	15 mg/Kg	ZN SM5540C	13	07/20/10 8:25	07/20/10	BJW-CV
Percent Moisture	3.4 %	SM2540G		07/21/10 16:00	07/22/10	BJW-CV
SAMPLE: Inv. Clean Soil		Lab ID: 10073110-001B	Compo	site	-	
SAMPLED BY: SG	Sample	e Time: 07/13/2010 18:40	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	3.26 %	Moisture Calc.	0.01	07/21/10 9:40	07/22/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	07/22/10 10:05	07/22/10	IC-SA
рН	8.57@21.6°C	EPA 9045C		07/21/10 12:15	07/21/10	NFM-SA
Phosphorus	246 mg/kg-dry	EPA 365.3	5	07/22/10 11:00	07/23/10	MED-SA
SAMPLE: Inv. Clean Soil		Lab ID: 10073110-001C	Compo	site		
SAMPLED BY: SG	Sample	e Time: 07/13/2010 18:40	SLOQ			
Test	Result	Method	<u>orog</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	299 mg/Kg	EPA 9071		07/22/10 11:10	07/22/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: TCLP Leachate of Inv. Cle	ean Soil	Lab ID: 10073110-001E	Compo	site		
SAMPLED BY: SG	Sample	e Time: 07/13/2010 18:40				
Total	Danult	8.4 o 4 b o ol	SLOQ	Amalysis Start	Analusia End	A maluat *
Test	Result	Method	0.0008	Analysis Start 07/22/10 9:00	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A			07/23/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/22/10 12:30	07/22/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	07/22/10 12:30	07/22/10	GSR-CV

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Parameter is not NELAC certified Ν
- Due to matrix bias, spike recovery was outside acceptance limits

MANAGER	Chan	M. Davis	DATE:	7/27/2010
MINITAR	<u> </u>	101.		.,,

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073110

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10073110

PAGE:

2 of 2

PO#:

AF76323

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

77						
RECEIVED FOR LAB BY: WCB	DATE:	07/20/2010 13:25			P	age 2 of 2
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/22/10 12:30	07/22/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/22/10 12:30	07/22/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/22/10 12:30	07/22/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/22/10 12:30	07/22/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/22/10 12:30	07/22/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/22/10 12:30	07/22/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/22/10 12:30	07/22/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	07/22/10 12:30	07/22/10	GSR-CV

**TEST REPORT** 

#### **REMARKS:**

- CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Parameter is not NELAC certified Ν
- Due to matrix bias, spike recovery was outside acceptance limits

	\(\frac{1}{2}\)			
MANAGER	Carrie M. Davis	4	DATE:	7/27/2010

## Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10080733

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

PAGE: 1 of 1

PO#: AF76709

10080733

PWS ID#

WO#:

PHONE:

(607) 562-4000

FAX: (607) 562-4001

77

 RECEIVED FOR LAB BY: DLM2
 DATE: 08/05/2010 9:50
 Page 1 of 1

-	Lab ID: 10080733-001A	Grab			
San	nple Time: 08/04/2010 11:00				
Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
					/ Walyot
= "	2177.0071		00/00/10 11.20	00/00/10	
		Grab			
San	nple Time: 08/04/2010 11:00	01.00			
Result	Method	SLUQ	Analysis Start	Analysis End	Analyst *
14.1 %	Moisture Calc.	0.01	08/09/10 14:45	08/10/10	NFM-SA
< 0.1 %	EPA 9095A	0.1	08/05/10 14:15	08/05/10	IC-SA
9.13@22.3°C	EPA 9045C		08/06/10 14:21	08/06/10	SG-SA
tings & Gypsum	Lab ID: 10080733-001D	Grab			
Sam	nple Time: 08/06/2010 7:45				
5 "	<b></b>	<u>SLOQ</u>			
	<del></del>				
					KW-CV
< 0.500 mg/L					RMD-CV
< 10.00 mg/L	EPA 6010B	10.00	08/09/10 10:30	08/09/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
< 0.200 mg/L	EPA 6010B	0.200	08/09/10 10:30	08/09/10	RMD-CV
	Result 96900 mg/Kg y Microbac-Erie  San  Result 14.1 % < 0.1 % 9.13@22.3°C  tings & Gypsum San  Result < 0.0008 mg/L < 0.500 mg/L < 0.100 mg/L < 0.500 mg/L < 0.100 mg/L	Sample Time: 08/04/2010 11:00	Sample Time: 08/04/2010 11:00   SLOQ	Result   Method   EPA 9071   O8/09/10 11:25	Sample Time: 08/04/2010 11:00   SLOQ   Analysis Start   96900 mg/Kg   EPA 9071

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie M. Darks	DATE:	8/10/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10080746

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley WO#: 10080746

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

PAGE: 1 of 1

Horseheads, NY 14845

PO#: AF76709

**TEST REPORT** 

PHONE: FAX:

(607) 562-4000

(607) 562-4001

PWS ID#

RECEIVED FOR LAB BY: DLM2 DATE: 08/05/2010 9:50 Page 1 of 1

RECEIVED FOR LAB BY: DLM2	DATE	: 08/05/2010 9:50			Pa	age l of l
SAMPLE: Inv. Cuttings & Cool Ash 1 SAMPLED BY: SG	Samp	Lab ID: 10080746-001A ple Time: 08/04/2010 11:00	Grab SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u>OLO W</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	59300 mg/Kg	EPA 9071		08/09/10 11:25	08/09/10	
Sample Note: Analysis performed by	Microbac-Erie					
SAMPLE: Inv. Cuttings & Cool Ash 1		Lab ID: 10080746-001B	Grab			
SAMPLED BY: SG	Samp	ole Time: 08/04/2010 11:00				
Tool	Danile	1.4 - 4 lo	SLOQ	Ameliania Otali		A 1 (+
<u>Test</u>	Result	<u>Method</u>	0.04	Analysis Start	Analysis End	
Moisture	15.7 %	Moisture Calc.	0.01	08/09/10 14:45	08/10/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	08/05/10 14:20	08/05/10	IC-SA
pH	9.64@22.3°C	EPA 9045C		08/06/10 14:21	08/06/10	SG-SA
SAMPLE: TCLP Leachate of Inv. Cutti	ngs & Cool Ash 1	Lab ID: 10080746-001D	Grab			
SAMPLED BY: SG	Samp	ole Time: 08/06/2010 7:45				
Test	Dogult	Method	SLOQ	Analysis Start	Analysis End	A nah ot *
Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	EPA 7470A	0.0008	08/09/10 9:00	Analysis End 08/10/10	Analyst * KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	
	J					RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/09/10 10:30	08/09/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	08/09/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/09/10 10:30	08/09/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/09/10 10:30	,08/09/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	08/09/10 10:30	08/09/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

	//	· .		
MANAGER	Carrie	M. Davis	DATE:	8/10/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10080752

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

PAGE: 1 of 1

PO#: AF76709

10080752

PWS ID#

WO#:

PHONE:

(607) 562-4000

FAX: (607) 562-4001

RECEIVED FOR LAB BY: DM3 DATE: 08/05/2010 9:50 Page 1 of 1

Total Petroleum Hydrocarbons 81100 mg/Kg EPA 9071 08/09/10 11:25 08/09/10 Sample Note: Analysis performed by Microbac-Erie  SAMPLE: Inv. Cuttings & Cool Ash 2 Lab ID: 10080752-001B Grab Sample Time: 08/04/2010 11:00 SLOQ  Test Result Method Analysis Start Analysis End Analysis Moisture Calc. 0.01 08/09/10 14:45 08/10/10 NFM-S, Free Liquid < 0.1 % EPA 9095A 0.1 08/05/10 14:25 08/05/10 IC-SA	RECEIVED FOR EAD DT. DIVIS	DATE.	00/03/2010 9.30			1 0	ige i oi i
Test   Result   Method   EPA 9071   08/09/10 11:25   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10   08/09/10	<u> </u>	Sample Time: 08/04/2010 11:00					
Sample Note: Analysis performed by Microbac-Erie         SAMPLE: Inv. Cuttings & Cool Ash 2       Lab ID: 10080752-001B       Grab         SAMPLED BY: SG       Sample Time: 08/04/2010 11:00       SLOQ         Test       Result       Method       Analysis Start       Analysis End       An	Test	Result	Method	<u>olow</u>	Analysis Start	Analysis End	Analyst *
SAMPLE: Inv. Cuttings & Cool Ash 2 SAMPLED BY: SG Sample Time: 08/04/2010 11:00  Test Moisture 15.3 % Moisture Calc. Free Liquid PH 9.33@22.4 °C  SAMPLE: TCLP Leachate of Inv. Cuttings & Cool Ash 2 SAMPLED BY: SG Sample Time: 08/06/2010 7:45  SLOQ Analysis Start Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End Analysis End An	Total Petroleum Hydrocarbons	81100 mg/Kg	EPA 9071		08/09/10 11:25	08/09/10	
SAMPLED BY: SG   Sample Time: 08/04/2010 11:00   SLOQ	Sample Note: Analysis performed by	Microbac-Erie					
SAMPLED BY: SG   Sample Time: 08/04/2010 11:00   SLOQ     Test   Result   Method   Moisture Calc.   0.01   08/09/10 14:45   08/10/10   NFM-S.     Free Liquid   Cold   C	SAMPLE: Inv. Cuttings & Cool Ash 2	L	ab ID: 10080752-001B	Grab			
Moisture         15.3 %         Moisture Calc.         0.01         08/09/10 14:45         08/10/10         NFM-S           Free Liquid         < 0.1 %		Sample	Time: 08/04/2010 11:00	SLOQ			
Free Liquid	<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
pH         9.33@22.4°C         EPA 9045C         08/06/10 14:21         08/06/10 SG-SA           SAMPLE: TCLP Leachate of Inv. Cuttings & Cool Ash 2         Lab ID: 10080752-001D         Grab           SAMPLED BY: SG         Sample Time: 08/06/2010 7:45         SLOQ           Test         Result         Method         Analysis Start         Analysis End         Analysis           Mercury - TCLP extracted         < 0.0008 mg/L	Moisture	15.3 %	Moisture Calc.	0.01	08/09/10 14:45	08/10/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cuttings & Cool Ash 2 Lab ID: 10080752-001D Grab  SAMPLED BY: SG Sample Time: 08/06/2010 7:45  Test Result Method SLOQ  Mercury - TCLP extracted < 0.0008 mg/L EPA 7470A 0.0008 08/09/10 9:00 08/10/10 KW-CV  Arsenic - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/09/10 10:30 08/09/10 RMD-CV	Free Liquid	< 0.1 %	EPA 9095A	0.1	08/05/10 14:25	08/05/10	IC-SA
SAMPLED BY: SG         Sample Time: 08/06/2010 7:45           Test         Result         Method         Analysis Start         Analysis End	рН	9.33@22.4°C	EPA 9045C		08/06/10 14:21	08/06/10	SG-SA
Test         Result         Method         Analysis Start         Analysis End         A	SAMPLE: TCLP Leachate of Inv. Cutti	ngs & Cool Ash 2	ab ID: 10080752-001D	Grab			
Test         Result         Method         Analysis Start         Analysis End         A	SAMPLED BY: SG	Sample	Time: 08/06/2010 7:45				
Mercury - TCLP extracted         < 0.0008 mg/L         EPA 7470A         0.0008 08/09/10 9:00         08/10/10 KW-CV           Arsenic - TCLP extracted         < 0.500 mg/L	Toot	Pocult	Mothod	SLOQ	Analysis Start	Analysis End	Analyst *
Arsenic - TCLP extracted < 0.500 mg/L EPA 6010B 0.500 08/09/10 10:30 08/09/10 RMD-C	<del></del>		<del></del>	0.0008			
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Dallati TOLI CALIDAGA TOLO TIGOTA TOLOG GOLOGITO TANDO		•					
Cadmium - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/09/10 10:30 08/09/10 RMD-C		3					RMD-CV
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#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carri M. Davis	DATE:	8/10/2010



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the space of sheet as Form 26R,	ately completed. All requi s provided. If additional sp reference the item numb ets needs to match the date	ace is necessary, ident er and identify the da	ify Date	Account the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority of the Authority o	JSE 0 d & Ge	NLY neral Notes
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	any Nar							
		ergy USA Inc. y, Name of Parent Com	nany			FPΔ	Genera	ator ID#
Talism	nan End	ergy Inc.				N/A		
		iling Address Line 1	C	ompany Mailing Addres	s Line 2			
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Brown			<u>Dina</u>					
Munici Warre				County Allegheny				
	ct Phon	e Ext	Contact Email Address	allegiterry				
	814-53		dybrown@talismanusa.c					
			ny Mailing Address (noted a				Yes	⊠ No
the	descri	be location of waste ge 03-006) well had site loca	neration and storage. Drill on ated at 431 Bradford Street, T	ruttings are generated du Troy Borough, Bradford C	ring natural c	ias drillii Vaste is	ng ope stored	rations at
	ers on		3.33.33.73.73.73.73.73.73.73.73.73.73.73	, <u>,</u>	<u> </u>	14010 10	0.0.00	
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		Troy	SECTION B. WAST				PA	Time
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Resi Waste	dual	Troy Resid Code I	SECTION B. WAST lual Waste Description	E DESCRIPTION  Amount	Unit of Measur ☐ cu yd [	e gal	PA	Frame
Resi	dual	Troy Resid	SECTION B. WAST lual Waste Description gas)	Amount 570	Unit of Measur ☐ cu yd [	i e	PA	
Resid Waste 810	dual Code	Troy  Resid Code I  Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P	Amount 570  ROPERTIES	Unit of Measur cu yd [	e gal	PA	Frame
Resi Waste	dual Code pH Ra	Troy  Resid Code I  Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P	Amount  570  ROPERTIES (based on analyses or kr	Unit of Measur cu yd [	e gal	PA	Frame
Reside Waste 810	dual Code pH Ra	Troy  Resid Code I  Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas)  1. GENERAL P	Amount  570  ROPERTIES (based on analyses or known thod 9095)	Unit of Measur cu yd [	e gal	PA	Frame
Resi Waste 810 a. b.	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  nge 11  cal State	SECTION B. WAST lual Waste Description gas)  1. GENERAL P 1.51 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperar	Amount  570  ROPERTIES (based on analyses or krothod 9095) 95) ture & pressure)	Unit of Measur cu yd lb showledge)	f e gal ⊠ ton		One Time
Reside Waste 810	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Me  Solid (EPA Method 900  Gas (ambient temperat  Color Greyish Black	Amount  570  ROPERTIES (based on analyses or krothod 9095) 95) ture & pressure)  Odor	Unit of Measur cu yd lb lb nowledge)	f e gal ⊠ ton		One Time
Resi Waste 810 a. b.	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  nge 11  cal State	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient temperat  Color Greyish Black Number of Solid or Liquid	Amount  570  ROPERTIES (based on analyses or krithod 9095) 95) ture & pressure)  Odor I Phases of Separation	Unit of Measur cu yd lb lb nowledge)  T Earthy / One	e e ⊒ gal ⊠ ton		One Time
Resi Waste 810 a. b.	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  nge 11  cal State	SECTION B. WAST lual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Me  Solid (EPA Method 900  Gas (ambient temperat  Color Greyish Black	Amount  570  ROPERTIES (based on analyses or krithod 9095) 95) ture & pressure)  Odor I Phases of Separation	Unit of Measur cu yd lb lb nowledge)  T Earthy / One	e e ⊒ gal ⊠ ton		One Time
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Resi Waste 810 a. b.	pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  ange 11  cal State  cal Appearance  sults of a detailed chenctions, is attached.	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Method 90)  Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of solid characterization of the	Amount  570  ROPERTIES (based on analyses or krothod 9095) 95) ture & pressure)  Odor I Phases of Separation eparation. Soil and Roco is ATTACHMENTS waste, as described in	Unit of Measur cuyd b b nowledge)  r Earthy One ck Fragmen	e gal gal ton  ' Slight		One Time
Resident Waste 810 a. b. c.	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  ange 11  cal State  cal Appearance  sults of a detailed chen ctions, is attached.  illed description of the v	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Method 909  Gas (ambient temperate of Solid or Liquid Describe each phase of solid characterization of the waste sampling method is a	Amount  570  ROPERTIES (based on analyses or krothod 9095)  95) ture & pressure)  Odor I Phases of Separation eparation. Soil and Rocotts Waste, as described in uttached.	Unit of Measur cuyd b lb cowledge)  r Earthy One ck Fragmen	e gal gal √ ton	Petro	One Time
Residence 810	dual Code pH Ra Physic	Troy  Resid Code I  Drill cuttings (oil and  ange 11  cal State  cal Appearance  sults of a detailed chen ctions, is attached. alled description of the valid assurance/quality	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Method 90)  Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of solid characterization of the	Amount  570  ROPERTIES (based on analyses or krothod 9095)  95) ture & pressure)  Odor I Phases of Separation eparation. Soil and Rocotts Waste, as described in uttached.	Unit of Measur cuyd b lb cowledge)  r Earthy One ck Fragmen	e gal ∃ gal ∃ ton  ' Slight  ts	Petro	One Time
Resident Waste 810 a. b.	pH Ra Physic  The re instruct A deta The quattach The re	Troy  Resid Code I  Drill cuttings (oil and  ange 11  cal State  cal Appearance  sults of a detailed chen ctions, is attached. alled description of the vality assurance/quality ed. sults of the hazardous	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  1.51 to  Liquid Waste (EPA Method 909  Gas (ambient temperate of Solid or Liquid Describe each phase of solid characterization of the waste sampling method is a	Amount  570  ROPERTIES (based on analyses or krothod 9095) 95) ture & pressure)  Odor I Phases of Separation eparation. Soil and Roc is ATTACHMENTS waste, as described in uttached. red by the laboratory(ie-	Unit of Measur cuyd b lb cowledge)  r Earthy One ck Fragmen	e	Petro	One Time

	A Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Comp	2 ⁴² (						
a. A detailed description of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.	⊠ Yes	☐ No						
<ul> <li>A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.</li> </ul>								
c. If portions of the information submitted are confidential, the substantiation for Yes No N/A a confidentiality claim, as described in the instructions, is attached.								
SECTION C. MANAGEMENT OF RESIDUAL WASTE								
1. PROCESSING OR DISPOSAL FACILITY (IES)								
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets	if necessar	y. 						
a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-4630-00010								
b. Facility Name Hakes C&D Landfill								
Address Line 1 4376 Manning Ridge Road								
Address Line 1								
Address City State ZIP Painted Post NY 14870  Municipality Erwin Twp County Steuben								
	•••							
c. Facility Contact Name Joe Boyles Title								
Phone (607) 937-6044 Email Address joe.boyles@cas	ella com							
(585) 466-7271	clia.com							
d. Volume of waste shipped to processing or disposal facility in the previous year. 204 □ cu yd □ gal □ lb ☑ ton (check one	·)							
a. Solid waste permit number(s) for processing or disposal facility being utilized. 9-0232-00003								
b. Facility Name Hyland Landfill								
Address Line 1 6653 Herdman Road								
Address Line 1								
Address City State ZIP Angelica NY 14709  Municipality Angelica County Allegany								
c. Facility Contact Name Larry Shilling Title								
Phone (585) 466-7271 Email Address   larry.shilling@ca								
d. Volume of waste shipped to processing or disposal facility in the previous year.								
181 ☐ cu yd ☐ gal ☐ lb ☒ ton (check one								
2. BENEFICIAL USE		53						
a. Has the waste been approved for beneficial use?	☐ Yes	⊠ No						
If "Yes", list the general permit number or approval number.								
b. Volume of waste beneficially used in the previous year.  0	۸	İ						

NEEDERS (1997)		PROCESS DESCRIPTION &				40000000		
a.	A detailed description of the		lution control proce	esses producing	Yes	☐ No		
	the waste, as specified in the	instructions, is attached						
b.	A schematic of the manufact		trol processes proc	ducing the waste,	⊠ Yes	☐ No		
	as specified in the instruction	ns, is attached.						
C.	If portions of the information			n for 🔲 Yes	☐ No	⊠ N/A		
	a confidentiality claim, as described in the instructions, is attached.							
	SECTI	ON C. MANAGEME	en en a de compania de contrata en tentra en contrata de contrata de contrata de contrata de contrata de contra	Security of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contr				
		1. PROCESSING OR D						
The ar	ea below (ad.) will accommo	late the identification of t	vo facilities. Attach	additional sheets	if necessary	·•		
a.	Solid waste permit number(s 8-0728-00004	) for processing or dispos	al facility being util	ized.				
b.	Facility Name	Chemung County Land	Ifill					
	Address Line 1	1690 Lake Street						
	Address Line 1							
	Address City State ZIP	Elmira	NY	14903		-		
	Municipality	Elmira	County	Chemung				
C.	Facility Contact Name	Carla Canjar						
	Title	Environmental Manage	er .					
	Phone .	(585) 797-5941	Email Address	carla.canjar@ca	sella.com			
d.	Volume of waste shipped to p	rocessing or disposal fac	ility in the provious					
		noocoonig or alopoouria	mity in the previous	year.				
	127	cu yd gal	☐ lb 🛛 ton		)			
a.		cu yd gal	☐ lb      ton	(check one)				
a.	127	cu yd gal	☐ lb      ton	(check one)				
a.	Solid waste permit number(s) 100361	cu yd gal for processing or dispos	☐ lb ☑ ton	(check one)				
	127 Solid waste permit number(s	cu yd gal	☐ lb ☑ ton	(check one)				
	Solid waste permit number(s) 100361 Facility Name	cu yd gal for processing or dispos  McKean County Landf	☐ lb ☑ ton	(check one)				
	Solid waste permit number(s) 100361 Facility Name Address Line 1	cu yd gal for processing or dispos  McKean County Landf	☐ lb ☑ ton	(check one)				
	Solid waste permit number(s) 100361 Facility Name Address Line 1 Address Line 1	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane	☐ Ib ⊠ ton al facility being util	(check one)				
	Solid waste permit number(s) 100361 Facility Name Address Line 1 Address City State ZIP	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane	□ lb ☑ ton al facility being util	(check one)				
b.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address City State ZIP Municipality	cu yd gal  for processing or dispos  McKean County Landf 19 Ness Lane  Kane  Sergeant Twp	□ lb ☑ ton al facility being util	(check one)				
b.	Solid waste permit number(s) 100361 Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name	cu yd gal  for processing or dispos  McKean County Landf 19 Ness Lane  Kane  Sergeant Twp	□ lb ☑ ton al facility being util	(check one)				
b.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931	Ib   Itom   Identify to the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the conten	i (check one) ized.  16735 McKean  manderfeld@gm				
b. с.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931	Ib   Itom   Identify to the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the content of the conten	(check one) ized.  16735 McKean  manderfeld@gm	ail.com			
c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal fac	Ib   Ion	(check one) ized.  16735 McKean  manderfeld@gm	ail.com			
c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal factor yd gal  2: Bener	Ib   Ion	(check one) ized.  16735 McKean  manderfeld@gm	ail.com	No		
b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal fac cu yd gal  2: Bener	Ib   ton   al facility being utili   PA   County    Email Address   Ility in the previous   Ib   ton	(check one) ized.  16735 McKean  manderfeld@gm	ail.com	⊠ No		
b. c.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 58  Has the waste been approved	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  rocessing or disposal fac cu yd gal  2: Bener for beneficial use? it number or approval nu	Ib   ton   al facility being utili   PA   County    Email Address   Itinity in the previous   Ib   ton   ICIAL USE   Inber.	(check one) ized.  16735 McKean  manderfeld@gm	ail.com	No No		
b. c. d.	Solid waste permit number(s) 100361  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 58  Has the waste been approved If "Yes", list the general permits	cu yd gal for processing or dispos  McKean County Landf 19 Ness Lane  Kane Sergeant Twp Mike Manderfeld  (814) 778-9931  processing or disposal fac cu yd gal  2: Bener for beneficial use? it number or approval nu	Ib   ton   al facility being utili   PA   County    Email Address   Itinity in the previous   Ib   ton   ICIAL USE   Inber.	(check one) ized.  16735 McKean  manderfeld@gm s year. (check one)	ail.com	No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No		

	SECTION D. CERTIFICATION					
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.						
Check the following, if applicab	le:					
I certify the information and has not chan	required in Section B-1, General Properties was supplied to the Department for the year ged.					
Form Submitted:	Form 26R					
	Other (specify)					
Date Submitted:						
l certify the information and has not change	required in Section B-2, Chemical Analysis was supplied to the Department for the year ged.					
Form Submitted:	Form 26R					
	Other (specify)					
Date Submitted:						
l certify the information r	equired in Section B-3, Process Description and Schematic, was supplied to the Department as not changed.					
Form Submitted:	Form 26R					
	Other (specify)					
Date Submitted:						
Name of Responsible Official	Title Environmental Specialist					
Dina Brown						
Signature /	S/16m Date 2/25/11					

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10123993

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

Dina Brown NAME:

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10123993

PAGE:

1 of 3

PO#:

AF 78732

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

A4H Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	DATE: 12/28/2010 13:50			Page 1 of			
SAMPLE: Air Cuttings		Lab ID: 10123993-001A						
SAMPLED BY: DJD	Sample	Time: 12/28/2010 10:50	SLOQ					
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *		
Total Petroleum Hydrocarbons	560 mg/Kg	EPA 9071	170	12/29/10 15:10	12/29/10			
Sample Note: Analysis performed	l by Microbac Laboratories, In	c-Erie Division.						
SAMPLE: Air Cuttings	L	ab ID: 10123993-001B	Grab					
SAMPLED BY: DJD	Sample	Time: 12/28/2010 10:50						
_ ,			SLOQ					
Test	Result	Method		Analysis Start	Analysis End			
Moisture	40.7 %	Moisture Calc.	0.01	01/03/11 11:30	01/04/11	KMF-SA		
Free Liquid	< 0.1 %	EPA 9095A	0.1	12/28/10 17:00	12/28/10	IC-SA		
рН	11.51@19.8°C	EPA 9045C		12/29/10 11:41	12/29/10	SG-SA		
SAMPLE: Air Cuttings	L	ab ID: 10123993-001C	Grab					
SAMPLED BY: DJD	Sample	Time: 12/28/2010 10:50						
Tool	Danuk	3.4.46	SLOQ	Amalusia Otaut	A !	A b 4 *		
<u>Test</u> Sodium	Result	Method	67.0	Analysis Start 12/30/10 10:00	Analysis End			
	636 mg/Kg	EPA 6010B			01/03/11	GSR-CV		
Chloride	1020 mg/Kg	EPA 300.0	48.4	01/04/11 12:43	01/05/11	HDP-CV		
ASTM D Chloride	< 25.0 mg/L	EPA 300.0	25.0	01/07/11 15:12	01/07/11	HDP-CV		
ASTM D Ph	10.34 @ 19.2°C	SM4500H+B		01/07/11 14:22	01/07/11	LTW-CV		
Cyanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2	01/06/11 9:28	01/07/11	HDP-CV		
Reactive Sulfide	< 64 mg/Kg	SW846 7.3	64	01/10/11 8:55	01/10/11	LTW-CV		
SAMPLE: TCLP Leachate of Air Cu	ttings La	ab ID: 10123993-001E	Grab			,		
SAMPLED BY: DJD	-	Time: 12/29/2010 8:00						
<u>_</u> · .			SLOQ					
Test	Result	Method		Analysis Start	Analysis End	Analyst *		
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/30/10 11:30	01/03/11	KW-CV		
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV		
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/30/10 9:30	01/03/11	GSR-CV		
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/30/10 9:30	01/03/11	GSR-CV		

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

	/1	¬ :		
MANAGER	Carrie	M. Oaks	DATE:	1/12/2011

### Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10123993

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown WO#:

10123993

COMPANY: Talisman Energy USA, Inc.

PAGE:

2 of 3

337 Daniel Zenker Dr ADDRESS:

AF 78732

Horseheads, NY 14845

PO#:

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

**TEST REPORT** 

A4H Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50

Page 2 of 3

							<b>age 2</b> 01 5
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/30/10 9:30	01/03/11	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/30/10 9:30	01/03/11	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/30/10 9:30	01/03/11	GSR-CV
Strontium - TCLP extracted	2.13 mg/L	L	EPA 6010B	0.050	12/30/10 9:30	01/03/11	GSR-CV
Zinc - TCLP extracted	0.577 mg/L		EPA 6010B	0.200	12/30/10 9:30	01/03/11	GSR-CV

SAMPLE: TCLP Leachate of Air Cuttin
-------------------------------------

Lab ID: 10123993-001F Grab

SAMPLED BY: DJD	Sample	Time: 01/06/2011 8:00				
	·		<u>SLOQ</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	<u>Analyst *</u>
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	01/10/11 10:20	01/10/11	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA

#### SAMPLE: TCLP Leachate of Air Cuttings

SAMPLED BY:

Lab ID: 10123993-001G

Sample Time: 01/06/2011 8:00 SLOO

Grab

		<u></u>	<u></u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.0250 mg/L	EPA 8260B 0.	0250	01/07/11 9:22	01/07/11	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B 0.	0250	01/07/11 9:22	01/07/11	CTM-SA

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

Value above calibration range but within annually verified linear range

	$\frac{1}{2}$		
MANAGER	Carri M. Davis	DATE:	1/12/2011

^{*} CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10123993

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown WO#:

10123993

COMPANY: Talisman Energy USA, Inc.

PAGE:

3 of 3

ADDRESS:

337 Daniel Zenker Dr

AF 78732

Horseheads, NY 14845

PO#:

PHONE: FAX:

(607) 562-4000 (607) 562-4001

**TEST REPORT** 

PWS ID#

A4H Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50			Pa	age 3 of 3
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	01/07/11 9:22	01/07/11	CTM-SA
SAMPLE: Air Cuttings	L;	ab ID: 10123993-001H.	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u> </u>	Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	01/11/11 15:00	01/11/11	
Sample Note: Analysis performed by	by Analytical Services, Inc.					
SAMPLE: Air Cuttings	Li	ab ID: 10123993-001I	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>		<b>Analysis Start</b>	Analysis End	Analyst *
Ignitability	Negative AS IS	SW846 1030		01/07/11 14:00	01/07/11	
Sample Note: Analysis performed to	y QC Laboratories.					

#### **REMARKS:**

- CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Davis	DATE:	1/12/2011	
	GAMAN IVI. COURT	D/ (1 = .		



#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legil attache	oly printed in the spaces d sheet as Form 26R,	itely completed. All requisions provided. If additional spiceference the item numbits needs to match the date	ace is necessary, ide er and identify the o	ntify Da	DEP:U		NLY neral Notes
Gener	al Refe	rence 287.54						
Date P	repare	d/Revised Feb	oruary 11, 2011					
			CLIENT (GENERATOR	R OF THE WASTE) I	NEORMA	NOITA		
	any Nai							
		ergy USA Inc. y, Name of Parent Comp				EDA (	2000	ator ID#
		y, Name of Parent Comp ergy Inc.	variy			N/A	senera	ator ID#
		ling Address Line 1	C	ompany Mailing Addre	ess Line 2	14//		
50 Per	nnwoo	d Place						
		dress Last Line – City	State	Zip+4	Phon		_	Ext
Warre		-4-41-41	PA First Name	15086 MI	(724)	814-530		
Brown	-	ntact Last Name	Dina	IVII		Suffix	·	
Munici				County		······		*****
Warre				Allegheny				
	ct Phon		Contact Email Address					
	<u>814-53</u>		dybrown@talismanusa.c					- F3
is the	waste g	enerated at the Compar	ny Mailing Address (noted a peration and storage. Drill o	above)?	lurina noturo		Yes	⊠ No
the	descri	01-075) well pad site locat	ted at 311 Stump Road, Gran	ville Township, Bradfo	rd County. P	A. Waste	is stor	red in
contain				***************************************	<b>,</b>			
					_			
Munic		Granville	County Bradfo			tate	PA	
Munic	ipality	Granville	SECTION B. WAST	ord E DESCRIPTION			PA	
Munic	ipality dual	Granville Residi	SECTION B. WAST	E DESCRIPTION	l Unit	of	PA	Time
Resi Waste	ipality dual	Granville Residu Code D	SECTION B. WAST ual Waste escription	E DESCRIPTION  Amount	Unit Meas	of ure	PA	Time Frame
Munic	ipality dual	Granville Residi	SECTION B. WAST ual Waste escription	E DESCRIPTION	l Unit	of	PA_	
Resi Waste	dual Code	Granville  Residi Code D  Drilling Cuttings (Oil a	SECTION B. WAST ual Waste escription nd Gas) 1. GENERAL P	Amount 1,109 ROPERTIES	Unit Meas cu yd	of ure	PA_	Frame
Residuante 810	dual Code pH Ra	Granville  Residi Code D  Drilling Cuttings (Oil a	SECTION B. WAST ual Waste escription and Gas)  1. GENERAL P 3 to 8.24	Amount 1,109 ROPERTIES (based on analyses or	Unit Meas cu yd	of ure	PA	Frame
Resignate 810	dual Code pH Ra	Granville  Residi Code D  Drilling Cuttings (Oil a	SECTION B. WAST ual Waste escription and Gas)  1. GENERAL P 3 to 8.24  Liquid Waste (EPA Me Solid (EPA Method 90)	Amount 1,109  ROPERTIES (based on analyses or thod 9095) 95)	Unit Meas cu yd	of ure	PA	Frame
Resignate 810	dual Code pH Ra Physic	Granville  Residu Code D  Drilling Cuttings (Oil a  nge 6.5 cal State	SECTION B. WAST ual Waste escription and Gas)  1. GENERAL P 3 to 8.24  Liquid Waste (EPA Me Solid (EPA Method 909) Gas (ambient tempera	Amount 1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)	Unit Meas Cu yd Ib	of ure gal		One Time
Residuante 810	dual Code pH Ra Physic	Granville  Residi Code D  Drilling Cuttings (Oil a	SECTION B. WAST ual Waste escription and Gas)  1. GENERAL P 3 to 8.24  Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black	Amount 1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Od	Unit Meas cu yd bi knowledge)	of ure		One Time
Resignate 810	dual Code pH Ra Physic	Granville  Residu Code D  Drilling Cuttings (Oil a  nge 6.5 cal State	SECTION B. WAST ual Waste escription and Gas)  1. GENERAL P 3 to 8.24  Liquid Waste (EPA Me Solid (EPA Method 909) Gas (ambient tempera	Amount 1,109 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od	Unit Meas cu yd lb knowledge)  or Earth n One	of sure gal ton		One Time
Resignate 810	dual Code pH Ra Physic	Granville  Residu Code D  Drilling Cuttings (Oil a  nge 6.5 cal State	SECTION B. WAST  ual Waste escription  and Gas)  1. GENERAL P  3 to 8.24  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid  Describe each phase of s	Amount 1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Od I Phases of Separatio eparation. Soil and R	Unit Meas cu yd lb knowledge)  or Earth n One	of sure gal ton		One Time
Residuate 810	dual Code PH Ra Physic	Granville  Residicode D  Drilling Cuttings (Oil a  nge 6.5 cal State  cal Appearance	SECTION B. WAST  ual Waste escription  and Gas)  1. GENERAL P  3. to 8.24  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od I Phases of Separatio eparation. Soil and R	Unit Meas Cu yd Ib knowledge)  or Earth One ock Fragme	of sure gal X ton	Petro	One Time
Residuate 810  a. b.	dual Code  PH Ra Physic	Granville  Residic Code D  Drilling Cuttings (Oil a code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I code I	SECTION B. WAST  ual Waste lescription  I. GENERAL P  3 to 8.24  Liquid Waste (EPA Method 90) Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS  ical characterization of the	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R	Unit Meas Cu yd Ib knowledge)  or Earth One ock Fragme	of Jure Jgal Ston y / Slight	Petro	One Time
Resignate 810  a. b.	dual Code  PH Ra Physic  Physic  The re instructory A deta	Granville  Residic Code D  Drilling Cuttings (Oil a code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In code In co	SECTION B. WAST  ual Waste lescription  I. GENERAL P  3 to 8.24  Liquid Waste (EPA Method 90) Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS ical characterization of the	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R	Unit Meas Cu yd Ib knowledge)  or Earth One ock Fragme	of Jure Jgal Ston y / Slight ents	Petro	One Time
Residuate 810  a. b.	pH Ra Physic  The re instru A deta	Granville  Residic Code D  Drilling Cuttings (Oil a cal State)  cal Appearance  sults of a detailed chemictions, is attached. illed description of the wallity assurance/quality	SECTION B. WAST  ual Waste lescription  I. GENERAL P  3 to 8.24  Liquid Waste (EPA Method 90) Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS  ical characterization of the	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R	Unit Meas Cu yd Ib knowledge)  or Earth One ock Fragme	of Jure Jgal Ston y / Slight ents	Petro	One Time
Residuate 810  a. b. c.	pH Ra Physic  The re instructor A deta The quattach	Granville  Residic Code D  Drilling Cuttings (Oil a cal State)  cal Appearance  sults of a detailed chemictions, is attached. illed description of the wallity assurance/quality ed.	SECTION B. WAST  ual Waste lescription  I. GENERAL P  3 to 8.24  Liquid Waste (EPA Method 90) Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS  ical characterization of the waste sampling method is a control procedures employ	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R SIS ATTACHMENTS waste, as described attached. yed by the laboratory(	Unit Meas Cu yd Ib knowledge)  or Earth One ock Fragme	of ure gal Ston	Petro Yes Yes	One Time  One Time  No No No No
Resignate 810  a. b.	pH Ra Physic  The re instructor A deta The quattach The re	Granville  Residic Code D  Drilling Cuttings (Oil a cal State)  sal Appearance  sults of a detailed chemictions, is attached. Illed description of the wallity assurance/quality ed. sults of the hazardous well.	SECTION B. WAST  ual Waste lescription  I. GENERAL P  3 to 8.24  Liquid Waste (EPA Method 90) Gas (ambient tempera  Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS ical characterization of the	Amount  1,109  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R SIS ATTACHMENTS waste, as described attached. yed by the laboratory(ched.	Unit Meas cu yd lb knowledge)  or Earth n One ock Fragme lin the	of ure gal Ston	Petro	One Time

		3. PROCESS DESCRIPTIO	N & SCHEMATIC ATTA	CHMENTS		
a.		the manufacturing and/or p the instructions, is attach		esses producing	⊠ Yes	☐ No
b.	A schematic of the manul as specified in the instruc	facturing and/or pollution options, is attached.	control processes pro	ducing the waste,	⊠ Yes	☐ No
C.		ion submitted are confider described in the instruction		on for Yes	☐ No	⊠ N/A
	SEC	TION C. MANAGEN	IENT OF RESIDU	JAL WASTE		
		1: PROCESSING OR			1,000	
The ar	ea below (ad.) will accom	modate the identification o	f two facilities. Attacl	h additional sheets	if necessary	•
a.	100361	er(s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	McKean County Lar	ndfill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
c.	Facility Contact Name	Mike Manderfeld				
	Title					
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	518	to processing or disposal  cu yd  gal	☐ lb      tor	n (check one)		
а.	8-4630-00010	er(s) for processing or disp	osal facility being util	lized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	Road			
	Address Line 1			v		
	Address City State ZIP	Painted Post	NY NY	14870	· · · · · · · · · · · · · · · · · · ·	
	Municipality	Erwin Twp	County	Steuben		
c.	Facility Contact Name	Joseph Boyles				···
	Title					
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	lla.com	
d.	Volume of waste shipped	to processing or disposal				
	268	cu yd gal	☐ lb 🖾 tor	n (check one)		
			EFICIAL USE	**		
a.	Has the waste been appro	ved for beneficial use?		-	Yes	⊠ No
	If "Yes", list the general po	ermit number or approval ı	number.			
b.	Volume of waste beneficia	ally used in the previous ye				
	0	cu yd gal	☐ lb ☐ tor	n (check one)		

		3. Process Descriptio				
a.	A detailed description of th the waste, as specified in t			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction		control processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as d			n for Yes	☐ No	⊠ N/A
	SECT	ION C. MANAGEN	MENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(II			<u> </u>
The ar	ea below (ad.) will accomm	odate the identification o	of two facilities. Attach	n additional sheets i	if necessary	
а.	Solid waste permit number 9-0232-00003	(s) for processing or disp	oosal facility being util	lized.		1001
b.	Facility Name	Hyland Landfill				
	Address Line 1	6653 Herdman Roa	<u>d</u>			
	Address Line 1					
	Address City State ZIP	Angelica	NY	14709		
	Municipality	Angelica	County	Allegany		
c.	Facility Contact Name	Larry Shilling		· · · · · ·		
	Title				<del> </del>	
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella com	
		(000) / 111 / 111 /		- arry.sriiiirig@ca.	-	
d.	Volume of waste shipped to	processing or disposal cu yd gal	facility in the previous	s year. (check one)		****
d. a.	• • • • • • • • • • • • • • • • • • • •	processing or disposal cu yd gal	facility in the previous	s year. (check one)		
	181 Solid waste permit number(	processing or disposal cu yd gal	facility in the previous        b     tor   toronal facility being util	s year. (check one)		
a.	Solid waste permit number( 8-0728-00004 Facility Name Address Line 1	processing or disposal cuyd gales) for processing or disp	facility in the previous        b     tor   toronal facility being util	s year. (check one)		
a.	Solid waste permit number( 8-0728-00004 Facility Name Address Line 1 Address Line 1	processing or disposal cuyd gal s) for processing or disp	facility in the previous    Ib   tor   tor   tor   tor   tor   tor   tor	s year.  (check one)		
a.	Solid waste permit number( 8-0728-00004 Facility Name Address Line 1 Address City State ZIP	cu yd gal  Chemung County La 1690 Lake Street	facility in the previous    Ib   torelian	s year. (check one) ized.		
a.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cu yd gal  Chemung County La  1690 Lake Street	facility in the previous    Ib   tor   tor   tor   tor   tor   tor   tor	s year.  (check one)		
a.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name	cu yd gal  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar	facility in the previous     b     tor   losal facility being util   andfill       NY       County	s year. (check one) ized.		
a. b.	Solid waste permit number(8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title	cu yd gal  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana	facility in the previous     b     tor   losal facility being util   andfill       NY       County	ized.  14903 Chemung		
a. b.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	cu yd gal cu yd gal s) for processing or disposal Chemung County La 1690 Lake Street Elmira Elmira Carla Canjar Environmental Mana (585)797-5941	facility in the previous    lb   tor   losal facility being util   andfill   NY   County   ager   Email Address	(check one) ized.  14903 Chemung  carla.canjar@cas		
a. b.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	cu yd gal cu yd gal s) for processing or disposal Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941 processing or disposal	facility in the previous	(check one) ized.  14903 Chemung  carla.canjar@cas		
a. b.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	cu yd gal cu yd gal s) for processing or disposal Chemung County La 1690 Lake Street Elmira Elmira Carla Canjar Environmental Mana (585)797-5941	facility in the previous    lb   tor   losal facility being util   andfill   NY   County   ager   Email Address	(check one) ized.  14903 Chemung  carla.canjar@cas		
a. b.	Solid waste permit number(8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	cu yd gal  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941  processing or disposal cu yd gal	facility in the previous	(check one) ized.  14903 Chemung  carla.canjar@cas		
a. b. c.	Solid waste permit number( 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	cu yd gal  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941  processing or disposal cu yd gal	facility in the previous	(check one) ized.  14903 Chemung  carla.canjar@cas		No
a. b. c.	Solid waste permit number (8-0728-00004) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 142  Has the waste been approved if "Yes", list the general permits and the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of	cu yd gal  cu yd gal  s) for processing or disposal Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941  p processing or disposal cu yd gal  2: BEN ed for beneficial use? mit number or approval	facility in the previous	(check one) ized.  14903 Chemung  carla.canjar@cas	sella.com	No No
a. b. c.	Solid waste permit number (8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 142  Has the waste been approve If "Yes", list the general per Volume of waste beneficial	cu yd gal  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941  processing or disposal cu yd gal  2: BEN ed for beneficial use? mit number or approval y used in the previous ye	facility in the previous	carla.canjar@cas	sella.com	No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No     No
a. b. c. d.	Solid waste permit number (8-0728-00004) Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 142  Has the waste been approved if "Yes", list the general permits and the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of	cu yd gal  cu yd gal  s) for processing or disposal Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585)797-5941  p processing or disposal cu yd gal  2: BEN ed for beneficial use? mit number or approval	facility in the previous	carla.canjar@cas	sella.com	⊠ No

SECTION D. CERTIFICATION
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.
Check the following, if applicable:
l certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed.
Form Submitted: Form 26R
Other (specify)
Date Submitted:
I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year and has not changed.
Form Submitted: Form 26R
Other (specify)
Date Submitted:
I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year and has not changed.
Form Submitted: Form 26R
Other (specify)
Date Submitted:
Name of Responsible Official Title Environmental Specialist
Dina Brown
Signature Date 2/25/11

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120835

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10120835

PAGE:

1 of 1

PO#:

AF77715

**TEST REPORT** 

PHONE: FAX:

(607) 731-0145

(607) 562-4001

PWS ID#

01-075

RECEIVED FOR LAB BY: CMS

DATE: 12/06/2010 15:40

Page 1 of 1

SAMPLE: Inv Cuttings

Sample Time: 12/06/2010 10:05

Lab ID: 10120835-001A

Composite SLOQ

SAMPLED BY: SG

Test

Result Total Petroleum Hydrocarbons 96400 mg/Kg

Method **EPA 9071** 

Analysis End Analyst* **Analysis Start** 

12/08/10 14:20 12/08/10

Sample Note: Analysis performed by Microbac Laboratories, Inc-Erie Division

< 0.1 %

SAMPLE: Inv Cuttings

Free Liquid

SAMPLED BY: SG

Lab ID: 10120835-001B

Sample Time: 12/06/2010 10:05

Composite

SLOQ

Test Result Moisture 13.8 %

Method Moisture Calc. EPA 9095A

**EPA 9045C** 

**EPA 6010B** 

**EPA 6010B** 

**EPA 6010B** 

**EPA 6010B** 

Analysis Start Analysis End 0.01 12/06/10 17:30 12/07/10 12/06/10 17:15 12/06/10

12/07/10 14:20

Analyst * IC-SA IC-SA

MED-SA

**GSR-CV** 

GSR-CV

**GSR-CV** 

**GSR-CV** 

12/07/10

12/08/10

12/08/10

12/08/10

12/08/10

pH

8.24@22.3°C

Lab ID: 10120835-001E

Sample Time: 12/07/2010 8:00

Composite

0.100

0.500

0.100

0.200

SAMPLE: TCLP Leachate of Inv Cuttings SAMPLED BY: SO

Nickel - TCLP extracted

Silver - TCLP extracted

Zinc - TCLP extracted

Selenium - TCLP extracted

SAMELED D1. 30	Jainpie	11116. 12/01/2010 0.00				
			SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/07/10 10:15	12/09/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/08/10 12:15	12/08/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.100 mg/L

< 0.500 mg/L

< 0.100 mg/L

< 0.200 mg/L

// 7.	MANAGER (and M. Dan
	ANAGER (Augus M. C)aux

DATE:

12/08/10 12:15

12/08/10 12:15

12/08/10 12:15

12/08/10 12:15

CHAIN OF CUSTODY		PAGE 1 OF 1
Talisman / UEG		
geowetlands@aol.com	W/O#: 10120835	ARE SPECIAL DETECTION LIMITS
	DEEDING ATT AND F	NEEDED: ☐YES /☑NO
	REFRIGERATE SAMPLES  AFTER COLLECTION  DW DRINKING WATER SL SLUDGE  NYDOH NYDEC PADEP	IF YES, PLEASE ATTACH
· ·	AFTER COLLECTION  DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP GW GROUND WATER SO SOIL	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL TRANSPORT WW WASTE WATER OTHER	YES NO
PH# 607-731-0145	DE DEIGNIZED WATER DE DISTREED WATER DE DECOMAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE IN COOLER  S SULFURIC ACID AS ASCORBIC ACID	/ / [5]
BILL 10: Talisman	LABORATORY IN COOLER WITH ICE  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE  H G MERCURIC CHLORIDE  An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
	SO3 SODIUM SULFITE NH, AMMONIUM CHLORIDE /	\$ 18
PO# AF 78557	NONE Hg MERCURIC CHLORIDE	Places fill mut all
PROJECT DESCRIPTION 0/-0 75	An incomplete chain of custody may delay the processing of your sample(s).	Please fill out all applicable areas
SAMPLER SIGNATURE / AFFILIATION	processing of your sample(s).	completely
CONTAINER SAMPLING POINT	SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE  An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	//
		/ LAB USE ONLY
1 Inv Cuttings	12/6/005 50 C 50 N TPH	
2	pH	
3	TCLP 8 RCRA Metals + Cu, Ni, Zn	
4	Free Liquids / % Moisture	
5 A- +PH		
6 B- pH, Free liquid,	Perform BTEX ONLY IF the TPH	
7 C- Anions, metals	exceeds 100,000 mg/Kg	
8 D- Total Sample		
9 E- TCLP Metals	7 2 HOUR TURNAROUND	
10	DAY TURNAROUND	
11		
DELIVERED BY	(A) Legación (Control de la control de la co	
RELINQUISHED BY	DATE: TIME: RECEIVED BY:	DATE: TIME:
_ 9.00//	1216110 1540	1 1
RELINQUISHED BY:	DATE: TIME: RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:	DATE: TIME: RECEIVED BY:	DATE TIME: 1545

PA ID #: 08-00380 NY ID # 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121734

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121734

PAGE:

1 of 3

PO#:

AF78557

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

01-075

RECEIVED FOR LAB BY: RMI

DATE: 12/09/2010 15:45

Page 1 of 3

RECEIVED FOR LAB BY: RML	DATE:	12/09/2010 15:45			Pa	age 1 of 3
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Samp	Lab ID: 10121734-001A le Time: 12/09/2010 11:42	Grab SLOQ			
<u>Test</u>	<u>Result</u>	Method	SLOG	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	
Sample Note: Analysis performed	by QC Laboratories					
SAMPLE: Inv. Cuttings		Lab ID: 10121734-001C	Grab			
SAMPLED BY: SG	Samp	ie Time: 12/09/2010 11:42	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Cyanide, Reactive	0.2 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV
Reactive Sulfide	1200 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings		Lab ID: 10121734-001D	Grab			
SAMPLED BY: SG	Samp	le Time: 12/09/2010 11:42	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
% Solids	76.55 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	15.07 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttings	Lab ID: 10121734-001F	Grab			
SAMPLED BY: SG	Samp	le Time: 12/11/2010 12:45				
	<b>.</b> "		SLOQ	A L !- O4 4	A 1 =	
<u>Test</u>	Result	Method EPA 8270C	0.10	Analysis Start 12/15/10 7:48	Analysis End 12/15/10	
Pyridine	< 0.10 mg/L					RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachiorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- Value above calibration range but within annually verified linear range

		DATE: 12/16/2010
MANAGER	Carrie M. Davis	DATE: 12/10/2010

PA ID #: 08-00380 NY ID# 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121734

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS:

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121734

PAGE:

2 of 3

PO#:

AF78557

PHONE: FAX:

(607) 562-4000 (607) 562-4001

**TEST REPORT** 

PWS ID#

01-075		· · · · · · · · · · · · · · · · · · ·				
RECEIVED FOR LAB BY: RML	DATE	: 12/09/2010 15:45			Pa	age 2 of 3
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttings	Lab ID: 10121734-001G	Grab	***		
SAMPLED BY: SG		ole Time: 12/07/2010 8:00	SLOO			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Strontium - TCLP extracted	17.8 mg/L	L EPA 6010B	0.050	12/08/10 12:15	12/08/10	GSR-CV
Sample Note: Sample for TCLP e.	*					
SAMPLE: TCLP Leachate of Inv. Cu	-	Lab ID: 10121734-001H	Grab			
SAMPLED BY: SG	Samp	ole Time: 12/11/2010 12:45	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
рН	6.53@16.6°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cuttin	gs	Lab ID: 10121734-0011	Grab			
SAMPLED BY: SG	Samı	ole Time: 12/12/2010 13:10	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

#### REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank
- Value above calibration range but within annually verified linear range

MANAGER	Carri M. Davis	DATE:	12/16/2010
	MANAZ FILES	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	

PA ID #: 08-00380 NY ID# 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121734

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121734

PAGE:

3 of 3

PO#:

AF78557

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

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RECEIVED FOR LAB BY: RML		E: 12/09/2010 15:45			Pa	age 3 of 3
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cutting	nas	Lab ID: 10121734-001J	Grab			
SAMPLED BY: SG	•	mple Time: 12/10/2010 11:15				
·		•	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Chemical Oxygen Demand	227 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cutting	ngs	Lab ID: 10121734-001L	Grab			
SAMPLED BY: SG	Sar	mple Time: 12/10/2010 11:15	CI 00			
Test	Result	Method	<u>SLOQ</u>	Analysis Ştart	Analysis End	Analyst *
pH	8.00@16.7°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	2080 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings	1	Lab ID: 10121734-001M	Grab	1	, ,,	
SAMPLED BY: SG	Sar	mple Time: 12/10/2010 10:25	01.00			
Test	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed b	y Analytical Services,	Inc.				

#### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Davis	DATE:	12/16/2010

CHAIN OF CUSTODY	Benchn	3E <u> </u>
REPORT TO: Talisman / UEG	E 2566 Pennsylva NALIOH, AOAOA70A	
geowetlands@aol.com	2566 Pennsylva Phoi W/O#: 10121734	E SPECIAL DETECTION LIMITS
gcowcuarias@aor.com	Fax	EDED: YES / NO
	REFRIGERATE SAMPLES  RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	AFTER COLLECTION  DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller	∏YES ZNO
PH# 607-731-0145	TRANSPORT / WW WASTE WATER OTHER TO DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY / /H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	/ / A
BILL TO: Talisman	IN COOLER / S SULFURIC ACID AS ASCORBIC ACID  N NITRIC ACID AC ACETIC ACID  AC ACETIC ACID	
Talloynuli	WITH ICE / SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE	~ / & / ·
PO# AF 7855 7	Thio SODIUM THIOSULFATE ZN ZINC ACETATE  NONE  Hg MERCURIC CHLORIDE	
PPA JECT-DESCRIPTION	An incomplete chain of custody may delay the	Please fill out all
SAMPLER SIGNATURE / AFFILIATION	processing of your sample(s).	applicable areas completely
Signature Afficiation	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/
CONTAINER SAMPLING POINT	LABORATORY IN COOLER WITH ICE  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE  An Incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
1 Inv Cuttings	Section and applications of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the sect	
2	C PCBs, Total Solids	
3 A-Plands, Ign.	G Total Volatile Solids	
4 C- Resolvity	C Ammonia-Nitrogen	
5 D-75, 705	C Water Leaching Procedure: COD,	
6 E-T. Sengle	/ / C / Total Solids, Oil & Grease,	
	V V V V V V V V V V V V V V V V V V V	
	4- Accessor 36 HOUR TURNAROUND	
9 4- TELP pH		
10 I - TECP UNS.	CASTM TS PH DAY TURNAROUND	
11 J- ASTM CODING	$\lfloor m + 7ax \rfloor$	
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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed o	or legib attache	oly printed in the disheet as Fort	spaces pro n 26R, refe	completed. All requivided. If additional sporence the item numbereds to match the date	ace Is necessary, ider er and identify the o	ntify 🖺	DEP(I		NLY eneral Notes
Genera	al Refe	rence 287.54							
Date P	repare	d/Revised	Februar	ry 11, 2011					
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	any Nar					\$			
		ergy USA Inc. y, Name of Paren	t Company				- EDA	Conor	ator ID#
		ergy Inc.	it Company				N/A	Jenei	מנטו וט#
Compa	any Mai	lling Address Lin	e 1	Co	ompany Mailing Addre	ess Lir			
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Munici					County				
Warrer					Allegheny				
	t Phon	: -		ntact Email Address					
	814-53			orown@talismanusa.c ailing Address (noted a				Yes	⊠ No
If 'No'.	descril	be location of wa	ste generat	ion and storage. <u>Drill c</u>	uttings are generated d	lurina r			
the				314 Ameah Valley Road					
contain Munici	ers on s	site. Wells		County Bradfo	ard		State	PA	
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Waste	Code pH Ra	Drill cuttings (o	Code Desci	1. GENERAL P. to 11.26	1,970  ROPERTIES (based on analyses or	Cu lb	yd		
Waste 810	Code pH Ra	Drill cuttings (o	Code Desci il and gas)	1. GENERAL P to 11.26 Liquid Waste (EPA Me Solid (EPA Method 909	1,970  ROPERTIES (based on analyses or thod 9095) 95)	Cu lb	yd		
<b>Waste</b> 810 <b>a. b.</b>	pH Ra Physic	Drill cuttings (o	Code Desci il and gas) 8.05	1. GENERAL P to 11.26 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat	1,970  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)	☐ cu ☐ lb knowle	yd		One Time
810 a.	pH Ra Physic	Drill cuttings (o	Code Descriil and gas)  8.05	1. GENERAL P to 11.26 Liquid Waste (EPA Me Solid (EPA Method 90s Gas (ambient temperat for Greyish Black	1,970  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd	cu lb knowle	yd	Petro	One Time
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5	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	CHMENTS	10000			
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No		
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,  Yes  No as specified in the instructions, is attached.							
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠. N/A		
	SECTION	ON C. MANAGEME	NT OF RESIDU	IAL WASTE				
1. 10 mm		1. PROCESSING OR D	ISPOSAL FACILITY(IE	:s):::::::::::::::::::::::::::::::::::				
The ar	ea below (ad.) will accommo	late the identification of t	wo facilitles. Attach	additional sheets i	f necessary	•		
а.	Solid waste permit number(s 8-4630-00010	for processing or dispo	sal facility being util	ized.				
b.	Facility Name	Hakes C&D Landfill						
	Address Line 1	4376 Manning Ridge F	Road					
	Address Line 1							
	Address City State ZIP	Painted Post	NY	14870				
	Municipality	Erwin Twp	County	Steuben				
C.	Facility Contact Name	Joseph Boyles						
	Title							
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	lla.com			
d.	Volume of waste shipped to p 1,034	cu yd 🔲 gal	☐ lb 🛛 ton	(check one)				
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispos	sal facility being utili	ized.				
b.	Facility Name	Hyland Landfill						
	Address Line 1	6653 Herdman Road						
	Address Line 1							
	Address City State ZIP	Angelica	NY	14709				
	Municipality	Angelica	County	Allegany				
C.	Facility Contact Name	Larry Shilling						
	Title	(505) 400 7074	F 9 A.1.1					
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com			
d.	Volume of waste shipped to p 896	rocessing or disposal factorial cu yd gal	cility in the previous					
			ICIAL USE					
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No		
	If "Yes", list the general perm	it number or approval nu	mber.					
b.	Volume of waste beneficially 0	used in the previous year cu yd gal		(check one)				

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a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	No
b.	A schematic of the manufact as specified in the instruction		entrol processes proc	lucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as de	submitted are confident scribed in the instruction	ial, the substantiations, is attached.	n for Yes	☐ No	⊠ N/A
	SECTI	ON C. MANAGEMI	ENT OF RESIDU Disposal Facility(ie	man had drawn still processed the scattering and processation to continue and a still before the		
The ar	ea below (ad.) will accommo				if necessary	
а.	Solid waste permit number(s 100361	for processing or dispo	sal facility being util	zed.		*****
b.	Facility Name	McKean County Land	fill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				······································
	Title	(5.11) = 70.0001				
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped to p	cu yd 🔲 gal	☐ Ib ⊠ ton	(check one)		
a.	Solid waste permit number(s	for processing or dispo	sal facility being utili	zed.		
b.	Facility Name					
	Address Line 1			***************************************		
	Address Line 1					
	Address City State ZIP					
	Municipality		County			
C.	Facility Contact Name			- Addish.		
	Title		F. 71 A 1.1			
	Phone		Email Address			
d.	Volume of waste shipped to p	cu yd 🔲 gal	☐ Ib ☐ ton	year. (check one)		
		2. BENE	FICIAL USE			
a.	Has the waste been approved				Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially 0	used in the previous yea cu yd gal	ı <b>r.</b>	(check one)		
	-					

		SECTION D. CERTIFICATION			
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.					
Check the following, if applical	ble:				
l certify the information	-	red in Section B-1, General Properties was supplied to the Department for the year			
Form Submitted:		Form 26R			
		Other (specify)			
Date Submitted:					
I certify the information		red in Section B-2, Chemical Analysis was supplied to the Department for the year			
Form Submitted:		Form 26R			
		Other (specify)			
Date Submitted:					
I certify the information for the year and h	•	ed in Section B-3, Process Description and Schematic, was supplied to the Department tchanged.			
Form Submitted:		Form 26R			
		Other (specify)			
Date Submitted:					
Name of Responsible Official		Title Environmental Specialist			
Dina Brown		1			
Signature	SI	Date 2/28/11			

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10100746

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PAGE:

PO#:

WO#:

AF78035

1 of 2

10100746

PWS ID#

0.500 10/08/10 12:30

0.100 10/08/10 12:30

10/08/10

10/08/10

**GSR-CV** 

**GSR-CV** 

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

03-035

**TEST REPORT** 

RECEIVED FOR LAB BY: DLM2	DATE	: 10/06/2010 9:55			Pa	age 1 of 2
SAMPLE: Air Cuttings		Lab ID: 10100746-001A	Compo	site		
SAMPLED BY: SG	Sam	ole Time: 10/05/2010 16:50	SLOQ			
<u>Test</u>	Result	Method	SLOW	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	360 mg/Kg	EPA 9071		10/08/10 14:00	10/08/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: Air Cuttings		Lab ID: 10100746-001B	Compo	site		
SAMPLED BY: SG	Samp	ole Time: 10/05/2010 16:50				
	5 "	<b>8.2</b> (1)	SLOQ	A		a a. a.m.
<u>Test</u>	Result	Method	0.04	Analysis Start	Analysis End	
Moisture	22.7 %	Moisture Calc.	0.01	10/06/10 10:30	10/07/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	10/08/10 11:05	10/08/10	IC-SA
pH	11.26@20.4C	EPA 9045C		10/06/10 16:30	10/06/10	NFM-SA
SAMPLE: Air Cuttings		Lab ID: 10100746-001C	Compo	site		
SAMPLED BY: SG	Samp	ole Time: 10/05/2010 16:50				
Test	Result	Method	SLOQ	Analysis Start	Amalusia Ead	Ammbumb #
Sodium	320 mg/Kg-dry	EPA 6010B	78.9	10/07/10 12:30	Analysis End 10/08/10	
Chloride	166 mg/Kg-dry	EPA 300.0	60.6	10/07/10 12:50	10/08/10	GSR-CV
			00.0			HDP-CV
Percent Moisture	22.7 %	SM2540G		10/06/10 10:30	10/07/10	NFM-SA
SAMPLE: TCLP Leachate of Air Cutt	ings	Lab ID: 10100746-001E	Compo	site		
SAMPLED BY: SG	Samp	le Time: 10/07/2010 9:15				
Toot	Popult	Mathad	SLOQ	Analysia Start	Analysis End	Analysi *
Test Moreum, TCLP extracted	<u>Result</u> < 0.0008 mg/L	<u>Method</u> EPA 7470A	0.0008	Analysis Start 10/08/10 8:40	Analysis End 10/11/10	
Mercury - TCLP extracted  Arsenic - TCLP extracted	•	EPA 6010B	0.500	10/08/10 12:30	10/11/10	KW-CV
	< 0.500 mg/L					GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	10/08/10 12:30	10/08/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/08/10 12:30	10/08/10	GSR-CV

#### **REMARKS:**

Chromium - TCLP extracted

Copper - TCLP extracted

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

EPA 6010B

**EPA 6010B** 

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.500 mg/L

< 0.100 mg/L

MANAGER	Carrie M. Davis	DATE:	10/12/2010

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10100746

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#:

10100746

PAGE:

2 of 2

PO#:

AF78035

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

03-035 RECEIVED FOR LAB BY: DLM2	DATE:	10/06/2010 9:55			P	age 2 of 2
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/08/10 12:30	10/08/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/08/10 12:30	10/08/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/08/10 12:30	10/08/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/08/10 12:30	10/08/10	GSR-CV
Zinc - TCLP extracted	0.206 mg/L	EPA 6010B	0.200	10/08/10 12:30	10/08/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie	M. Davis	DATE:	10/12/2010	

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TWOILING TAILY SOLUTIONS.CA  REFRIGERATE SAMPLES AFTER COLLECTION  AFTER COLLECTION  TRANSPORT  TO  TRANSPORT  TO  LABORATORY  IN COOLER  WITH ICC  REFRIGERATE SAMPLES  SOLUTION  TRANSPORT  TO  LABORATORY  IN COOLER  WITH ICC  IN HORSE COLLECTION  TRANSPORT  TO  LABORATORY  IN COOLER  WITH ICC  IN HORSE COLLECTION  TO  LABORATORY  IN COOLER  WITH ICC  IN HORSE COLLECTION  IN HORSE CALLED  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  IN HORSE COLLEGE  SOLUTION  SOLUTION  SOLUTION  SOLUTION  SOLUTION  IN HORSE COLLEGE  SOLUTION  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLEGE  SOLUTION  IN HORSE COLLE		,				2:	000 F	UPPOPER THEORY	
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1 Air Cuttings		- 1				1/	DE	DEIGNIZED WATER DI DISTILLED WATER PERSONAL OTHER IEVES DI EASE ATTA	CH REQUIREMENTS
1 Air Cuttings	FAX#				f	<i>y</i>	148	/ H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID	
1 Air Cuttings	U3 -0 3 5 SAMPLER SIGNATURE / AFFILIATION		WITH	ICE	TE MENTER TO		PLEP INTIMES OF COMPO	N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE Thia SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE  An incomplete chain of custody may delay the processing of your sample(s).	Icable areas
1 Air Cuttings		1/8		1/3		/ 3		ANALYSIS TO BE PERFORMED (PER CONTAINER)  LAB (S)	ONLY
TCLP 8 RCRA Metals + Cu, Ni, Zn  A TPH  A TPH  Free Liquids / % Moisture  C C I, No.  TCLP 8260 / 8270 ONLY IF the TPH  TCLP 8260 / 8270 ONLY IF the TPH  Exceeds 120,000 mg/Kg  E TCLP Motal bor Cu, Ni, Zn  DATE: DATE: TIME: RECEIVED BY:  RELINCUISHED BY:  RECINQUISHED BY:  RECINQUISHED BY:  TIME: RECEIVED BY:  DATE: TIME: RECEIVED BY:  TIME: RECEIVED BY:  DATE: TIME: RECEIVED BY:  TIME: RECEIVED BY:  DATE: TIME: RECEIVED BY:  DATE: TIME: RECEIVED BY:  TIME: RECEIVED BY:  TIME: RECEIVED BY:  TIME: RECEIVED BY:  TIME: RECEIVED BY:  DATE: TIME: TIME: RECEIVED BY:  TIME: TIME: TIME: RECEIVED BY:  TIME: TIME: TIME: TIME: RECEIVED BY:  TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME: TIME	1 Air Cuttings	12.5	MSC	ديج	<			1 7 7 7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	COOLARC
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10104059

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10104059

PAGE:

1 of 1

PO#:

AF76834

PWS ID#

0.200 10/30/10 13:40

10/31/10

RMD-CV

PHONE: FAX:

(607) 731-0145 (607) 562-4001

**TEST REPORT** 

03-035

RECEIVED FOR LAB BY: SCP	DATE	: 10/27/2010 14:15			P	age l of l
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Samı	Lab ID: 10104059-001A ole Time: 10/26/2010 11:40	Grab SLOQ			
<u>Test</u> Total Petroleum Hydrocarbons	<u>Result</u> 7600 mg/Kg	<u>Method</u> EPA 9071	170	Analysis Start 10/28/10 14:20	Analysis End 10/28/10	Analyst *
Sample Note: Analysis performed b	y Microbac Laboratories	s, IncErie Division				
SAMPLE: Inv. Cuttings		Lab ID: 10104059-001B	Grab			
SAMPLED BY: SG	Samp	ole Time: 10/26/2010 11:40	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	19.3 %	Moisture Calc.	0.01	10/29/10 10:30	11/01/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	10/28/10 11:05	10/28/10	IC-SA
рН	10.83@22.4°C	EPA 9045C		11/01/10 14:00	11/01/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cutt	ings	Lab ID: 10104059-001D	Grab			TO STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE ST
SAMPLED BY: SG	Samp	ole Time: 10/28/2010 8:00	01.00			
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	-0.0008	10/30/10 8:45	10/31/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/30/10 13:40	10/31/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	10/30/10 13:40	10/31/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/30/10 13:40	10/31/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/30/10 13:40	10/31/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/30/10 13:40	10/31/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/30/10 13:40	10/31/10	RMD-CV
Nickel - TCLP extracted	0.243 mg/L	EPA 6010B	0.100	10/30/10 13:40	10/31/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/30/10 13:40	10/31/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/30/10 13:40	10/31/10	RMD-CV

#### **REMARKS:**

Zinc - TCLP extracted

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

**EPA 6010B** 

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.200 mg/L

MANAGER	Carri M. Davis	DATE:	11/1/2010

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CHAIN OF CUSTODY REPORT TO: Talisman / UEG									PAGE 1	OF	1
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geowetlands@aol.com						Y	W/O#. 10104055		NEEDED: YES	/√№	
twollin@rallysolutions.ca			ATE SA		ES	_	RESULTS ARE BEIN	IG USED FOR:	IF YES, PLEASE	TACH	
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4			<del> </del>			-	Free Liquids / % Moisture				
5 A - TPH				<u> </u>		1	BTEX				
	i Cih		<b></b>				TCLP 1750 + 8270 ONLY IF the TPH				
6 B-pH, free Liquids, 1- Mo 7 C-T: Sample 8 D-TCLP metals + Cupi	1313		1	•			exceeds 1/20,000 mg/Kg		4		
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9	:						72 HOUR TURNAROUND				441 241
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110485

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS:

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10110485

PAGE:

1 of 1

PO#:

AF 78035

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

03-035

RECEIVED FOR LAR BY- PMI

**TEST REPORT** 

RECEIVED FOR LAB BY: RML	DATE:	11/03/2010 12:36	Page 1 of 1			
SAMPLE: Inv. Cuttings SAMPLED BY: SG	!	Lab ID: 10110485-001A Grab Sample Time: 11/01/2010 19:20 SLOG				,
<u>Test</u>	Result	<u>Method</u>	<del>DED Q</del>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	59000 mg/Kg	EPA 9071		11/04/10 14:30	11/04/10	
Sample Note: Analysis performed	by Microbac Laboratories, Ir	c-Erie Division.				
SAMPLE: Inv. Cuttings	L	ab ID: 10110485-001B	Grab			
SAMPLED BY: SG	Sample	Time: 11/01/2010 19:20	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	23.9 %	Moisture Calc.	0.01	11/03/10 14:45	11/04/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	11/03/10 14:45	11/03/10	IC-SA
рН	8.25@23.6°C	EPA 9045C		11/04/10 15:32	11/04/10	SG-SA
SAMPLE: TCLP Leachate of Inv. Cu	ittings L	ab ID: 10110485-001D	Grab			
SAMPLED BY: SG	Sample	Time: 11/04/2010 7:30	SLOQ			
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	11/04/10 13:15	11/04/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	11/04/10 14:05	11/04/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Chromium - TCLP extracted	< 0:500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 14:05	11/04/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/04/10 14:05	11/04/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	11/04/10 14:05	11/04/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

MANAGER	Carrie M. Davis	DATE:	11/5/2010
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CHAIN OF CUSTODY  REPORT TO: Talisman / UEG geowetlands@aol.com	_				2	! <b>56</b> 6	W/C	O#: 101	10485		PAGE 1	EECTIC		
twollin@rallysolutions.ca		RIGER ER COI		AMPLE FION	s	/o		SL SLUDGE	RESULTS ARE BEI	NG USED FOR;  DEC PADEP	NEEDED: TYES	ATTACH		1.
CONTACT Steve Gridley PH# 607-731-0145	- - -   1	FRANS TO				G St W	GROUND WATER SURFACE WATER WASTE WATER DEIONIZED WATER	50 SOIL HZ HAZARDOUS OTHER		DFILL	EYES PLEASE	B Ø		, ENTS
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7					<u> </u>	<u> </u>	exceeds 12	0,000 mg/Kg						
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# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114050

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

**SEND DATA TO:** 

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#: 10114050

PAGE: 1 of 2

PO#: AF77414

PWS ID#

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

Pad

Pad							
RECEIVED FOR LAB BY: SCP	DAT	E: 11/29/	2010 10:06			Pa	age 1 of 2
SAMPLE: Pad Soil		Lab ID:	10114050-001A	Compo	site	·	
SAMPLED BY: SG	San	nple Time: 1	1/24/2010 11:25	01.00			
<u>Test</u>	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 171 mg/Kg		EPA 9071	171	12/01/10 16:00	12/01/10	
Sample Note: Analysis performed by	Microbac Laboratorio	es, Inc-Erie	Division				
SAMPLE: Pad Soil		Lab ID:	10114050-001B	Compo	site		
SAMPLED BY: SG	San	nple Time: 1	1/24/2010 11:25	•			
_		•		SLOQ			
<u>Test</u>	Result		<u>Method</u>		Analysis Start	Analysis End	
Moisture	11.6 %		Moisture Calc.	0.01	11/30/10 9:40	12/01/10	NFM-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	11/29/10 17:00	11/29/10	IC-SA
pH	8.05@22.7°C		EPA 9045C		11/30/10 8:00	11/30/10	NFM-SA
SAMPLE: Pad Soil		Lab ID: 1	0114050-001C	Compo	site		
SAMPLED BY: SG	San	nple Time: 1	1/24/2010 11:25				
_				SLOQ			
<u>Test</u>	Result		<u>Method</u>		Analysis Start	Analysis End	
Sodium	< 162 mg/Kg	MS	EPA 6010B	162	11/30/10 10:10	12/01/10	JRA-CV
Chloride	< 50.1 mg/Kg		EPA 300.0	50.1	11/30/10 14:49	12/01/10	HDP-CV
SAMPLE: TCLP Leachate of Pad Soil		Lab ID: 1	0114050-001E	Compo	site		
SAMPLED BY: SG	Sam	nple Time: 1	1/30/2010 8:00				
T4	DI4		Madhad	SLOQ	Amakasia Cama	Analysis End	Analus t
Test TOLD	Result		Method	0.0008	Analysis Start	Analysis End 12/01/10	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A		11/29/10 9:30		KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	11/30/10 13:15	11/30/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	11/30/10 13:15	11/30/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	11/30/10 13:15	11/30/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	11/30/10 13:15	11/30/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	11/30/10 13:15	11/30/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	11/30/10 13:15	11/30/10	GSR-CV

#### REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MS Limit of detection increased due to matrix interference and spike recovery data

MANAGER	Cani	M. Davis	DATE:	12/2/2010

LAB ID: 08-00380 LAB ID: 39-00401

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114050

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

COMPANY:

ADDRESS:

NAME:

Steve Gridley

Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10114050

PAGE:

2 of 2

PO#:

AF77414

PHONE: FAX:

(607) 731-0145

**TEST REPORT** 

PWS ID#

(607) 562-4001

Pad RECEIVED FOR LAB BY: SCP	DATE:	11/29/2010 10:06			P	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/30/10 13:15	11/30/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/30/10 13:15	11/30/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/30/10 13:15	11/30/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	11/30/10 13:15	11/30/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MS Limit of detection increased due to matrix interference and spike recovery data

MANAGER	Carri M. Davis	DATE:	12/2/2010	

CHAIN OF CUSTODY			PAGE   UP
Talisman / UEG			
geowetlands@aol.com	1	W/O#: 10114050	ARE SPECIAL DETECTION LIMITS
geowettands@aoi.com			NEEDED: YES / ZNO
	REFRIGERATE SAMPLES AFTER COLLECTION	KESULIS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	AI TEN COLLECTION	DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEF	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	TRANSPORT /	SW SURFACE WATER HZ HAZARDOUS LANDFILL WW WASTE WATER OTHER	YES NO
PH# 607-731-0145	1 70 /	DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
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SAMPLER SIGNATURE / AFFILIATION		processing or your sample(s).	completely
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-			/ LAB USE ONLY
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4		Free Liquids / % Moisture	
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## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legib attache	oly printed in the space d sheet as Form 26R,	ately completed. All requi s provided. If additional sp reference the item numb ets needs to match the date	ace is necessary, ider er and identify the o	ntify Date Red	EP USE ONLY beived & General Notes
Gener	al Refe	rence 287.54				
Date P	repare	d/Revised Fe	ebruary 11, 2011			
			CLIENT (GENERATOR	R OF THE WASTE) I	NEORMATIO	Ň
	any Nar					
		ergy USA Inc. y, Name of Parent Com	nany		E	PA Generator ID#
		ergy Inc.	parry			/A
		lling Address Line 1	С	ompany Mailing Addre		
		d Place				
-	_	dress Last Line – City	State PA	<b>Zip+4</b> 15086	Phone (724) 914	Ext
Warre Comp		ntact Last Name	First Name	13060 MI	(724) 814- Sı	uffix
Brown	•		Dina	•••		
Munic				County		
Warre	ndale ct Phon	e Ext	Contact Email Address	Allegheny		
	814-53		dybrown@talismanusa.d	com		
			ny Mailing Address (noted			Yes 🛛 No
			neration and storage. Drill o			
the	.05 ners on s		d at 733 Regan Hill Road, Wa	arren Township, Bradfor	d County, PA. Wa	aste is stored in
Munici		Warren	County Bradfo	ord	State	PA
			County Bradfo			PA
Munic Resi	ipality dual	Warren Resid	SECTION B. WAST		Unit of	Time
Munici	ipality dual	Warren Resid	SECTION B. WAST		Unit of Measure	Time Frame
Munic Resi	ipality dual	Warren Resid	SECTION B. WAST dual Waste Description	E DESCRIPTION	Unit of Measure ☐ cu yd ☐ g	Time Frame al
Munici Resi Waste	ipality dual	Warren Resid	SECTION B. WAST dual Waste Description	E DESCRIPTION Amount 280	Unit of Measure ☐ cu yd ☐ g	Time Frame al
Munici Resi Waste	ipality dual	Warren  Resid Code I  Drill cuttings (oil and	SECTION B. WAST fual Waste Description gas)  1. GENERAL P to 11.3	Amount 280 ROPERTIES (based on analyses or	Unit of Measure Cuyd g	Time Frame al
Resi Waste 810	dual Code pH Ra	Warren  Resid Code I  Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas)  1. GENERAL P to 11.3 Liquid Waste (EPA Me	Amount 280 ROPERTIES (based on analyses or othod 9095)	Unit of Measure Cuyd g	Time Frame al
Resi Waste 810	dual Code pH Ra	Warren  Resid Code I  Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90 Solid (EPA Method 90	Amount 280 ROPERTIES (based on analyses or lithod 9095) 95)	Unit of Measure Cuyd g	Time Frame al
Resi Waste 810	dual Code pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  9 to 11.3  Liquid Waste (EPA Method 90)  Gas (ambient tempera	Amount 280 ROPERTIES (based on analyses or othod 9095) 95) ture & pressure)	Unit of Measure □ cu yd □ g □ lb □ to  (nowledge)	Time Frame
Resi Waste 810	dual Code pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  9 to 11.3  Liquid Waste (EPA Method 90)  Gas (ambient tempera Color Greyish Black	Amount 280 PROPERTIES (based on analyses or othod 9095) 95) fure & pressure) Odd	Unit of Measure cu yd g lb sto Cnowledge)	Time Frame al
Resi Waste 810	dual Code pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  9 to 11.3  Liquid Waste (EPA Method 90)  Gas (ambient tempera	Amount 280  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Thases of Separation	Unit of Measure  cu yd g lb sto cnowledge)  Dr Earthy / Sli n One	Time Frame
Resi Waste 810	dual Code pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State	SECTION B. WAST  Jual Waste Description  gas)  1. GENERAL P  9 to 11.3  Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 280  ROPERTIES (based on analyses or bethod 9095) 95) ture & pressure) Odd Thases of Separation eparation. Soil and Re	Unit of Measure  cu yd g lb sto cnowledge)  Dr Earthy / Sli n One	Time Frame
Resi Waste 810	dual Code pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State  cal Appearance	SECTION B. WAST dual Waste Description  gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS	Amount 280 ROPERTIES (based on analyses or behod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Resistance	Unit of Measure  Cu yd  g Ib  to  Chowledge)  Dr Earthy / Slin One Dock Fragments	Time Frame al One Time  ght Petroleum
Resi Waste 810	pH Ra Physic	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State  cal Appearance  sults of a detailed cherctions, is attached.	SECTION B. WAST dual Waste Description  gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	Amount  280  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Residence waste, as described in the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control o	Unit of Measure  Cu yd  g Ib  to  Chowledge)  Dr Earthy / Slin One Dock Fragments	Time Frame
Resi Waste 810  a. b.	pH Ra Physic  The re instruct A deta	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State  cal Appearance  sults of a detailed cherections, is attached. iiled description of the vertices.	SECTION B. WAST dual Waste Description  gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	Amount  280  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Resident Separation waste, as described in attached.	Unit of Measure  Cu yd  g  I b  to  Chowledge)  Dr Earthy / Slin  One  Dock Fragments  In the	Time Frame al One Time  ght Petroleum  Yes No
Resi Waste 810 b. c.	pH Ra Physic  The re instruct A deta	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State  cal Appearance  sults of a detailed chen ctions, is attached. alled description of the cuality assurance/quality	SECTION B. WAST dual Waste Description  gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	Amount  280  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Resident Separation waste, as described in attached.	Unit of Measure  Cu yd  g  I b  to  Chowledge)  Dr Earthy / Slin  One  Dock Fragments  In the	Time Frame al One Time  ght Petroleum  Yes No
Resi Waste 810  a. b.	pH Ra Physic  The re instruct A deta The quattach	Warren  Resid Code I  Drill cuttings (oil and  nge 8. cal State  cal Appearance  sults of a detailed cheretions, is attached. diled description of the callity assurance/quality ed.	SECTION B. WAST dual Waste Description  gas)  1. GENERAL P 9 to 11.3  Liquid Waste (EPA Method 90  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS nical characterization of the	Amount  280  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant Resistant R	Unit of Measure  Cu yd  g  I b  to  Chowledge)  Dr Earthy / Slin  One  Dock Fragments  In the	Time Frame al One Time  ght Petroleum  Yes No

20.52		PROCESS DESCRIPTION &				
a.	A detailed description of the		ution control proce	esses producing		☐ No
	the waste, as specified in the instructions, is attached.					
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, X Yes No					
	as specified in the instruction	ns, is attached.				
c.	If portions of the information			n for Yes	☐ No	⊠ N/A
	a confidentiality claim, as des	scribed in the instructions	, is attached.			
	SECTION	ON C. MANAGEME	NT OF RESIDU	JAL WASTE		
		1. PROCESSING OR DI				
The ar	rea below (ad.) will accommod	date the identification of tw	vo facilitles. Attacl	n additional sheets	if necessary	
a.	Solid waste permit number(s	for processing or dispos	al facility being util	ized.		
	8-0728-00004					
b.	Facility Name	Chemung County Land	fill			
	Address Line 1	1690 Lake Street				
	Address Line 1					
	Address City State ZIP	Elmira	NY	14903		
	Municipality	Elmira	County	Chemung		
c.	Facility Contact Name	Carla Canjar				
	Title	Environmental Manage	r			· · · · · · · · · · · · · · · · · · ·
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com	
d.	Volume of waste shipped to p	processing or disposal fac	ility in the previous	s vear		
	123	cu yd 🔲 gal [	☐ lb      tor		)	
a.	Calidaracta narrait numbar(a)	for processing or dispose	al facility being util	ized.		
,	8-4630-00010	<b>3</b> · · · · · · · · · · · · · · · · · · ·				
b.		Hakes C&D Landfill				
b.	8-4630-00010	Hakes C&D Landfill	oad			****
b.	8-4630-00010 Facility Name		oad			
b.	8-4630-00010  Facility Name Address Line 1	Hakes C&D Landfill	oad	14870		
b.	8-4630-00010  Facility Name Address Line 1 Address Line 1	Hakes C&D Landfill 4376 Manning Ridge R		14870 Steuben		
b. c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post  Erwin Twp	NY			
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	Hakes C&D Landfill 4376 Manning Ridge R Painted Post	NY			
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post  Erwin Twp	NY		ella.com	
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271	NY County Email Address	Steuben joe.boyles@case	ella.com	
	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271	NY County Email Address	Steuben joe.boyles@case		
c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp Joseph Boyles  (607) 937-6044 (585) 466-7271	NY County Email Address	Steuben joe.boyles@case		
c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  processing or disposal factory of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control	NY County Email Address	Steuben joe.boyles@case		
c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  Processing or disposal factor yd gal	NY County  Email Address  ility in the previous  b    ton	Steuben joe.boyles@case		No
c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  processing or disposal factor yd gal gal [ 2. Benefit for beneficial use?	NY County  Email Address  ility in the previous lb	Steuben joe.boyles@case		⊠ No
c.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 103  Has the waste been approved	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  processing or disposal factor yd gal gal gal gal gal gal gar gal gal gal gar gal gal gal gal gal gal gal gal gal gal	NY County  Email Address  ility in the previous b ton	Steuben joe.boyles@case		⊠ No
d.	8-4630-00010  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to p 103  Has the waste been approved If "Yes", list the general perm	Hakes C&D Landfill 4376 Manning Ridge R  Painted Post Erwin Twp  Joseph Boyles  (607) 937-6044 (585) 466-7271  processing or disposal factor yd gal gal gal gal gal gal gar gal gal gal gar gal gal gal gal gal gal gal gal gal gal	NY County  Email Address  ility in the previous b ton	joe.boyles@case s year. (check one)	☐ Yes	⊠ No

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year _____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Title Environmental Specialist Name of Responsible Official Dina Brown Date

LAB ID: 08-00380 LAB ID: 39-00401

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120831

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: ADDRESS:

Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10120831

PAGE:

1 of 1

PO#:

AF78267

PWS ID#

PHONE:

(607) 731-0145

FAX:

(607) 562-4001

05-005

RECEIVED FOR LAB BY: CMS

DATE: 12/06/2010 15:40

**TEST REPORT** 

Page 1 of 1

SAMPLE: inv. Cuttings

Composite

SAMPLED BY: SG

Lab ID: 10120831-001A Sample Time: 12/06/2010 13:47

SLOQ

<u>Test</u>

Result Total Petroleum Hydrocarbons 94900 mg/Kg Method EPA 9071

Analysis End Analyst* **Analysis Start** 

12/08/10 14:20 12/08/10

Sample Note: Analysis performed by Microbac Laboratories, Inc-Erie Division

SAMPLE: Inv. Cuttings

Lab ID: 10120831-001B

Sample Time: 12/06/2010 13:47

Composite

SLOQ

SAMPLED BY: SG

Test Result Moisture 16.4 %

Method Moisture Calc. **EPA 9095A** 

**EPA 9045C** 

Analysis Start 0.01 12/06/10 17:30 12/06/10 17:10 0.1

12/07/10 14:20

Analysis End Analyst* 12/07/10 12/06/10

12/07/10

IC-SA IC-SA

MED-SA

pН

Free Liquid

SAMPLE: TCLP Leachate of Inv.Cuttings

Lab ID: 10120831-001E

Composite

**SLOQ** 

SAMPLED BY: SG

Sample Time: 12/07/2010 8:00

Test	<u>Result</u>	Method		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/07/10 10:15	12/09/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/08/10 12:15	12/08/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	G\$R-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	12/08/10 12:15	12/08/10	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.1 %

7.97@21.7°C

MANAGER	- Carrie	M. Davis	DATE:	12/10/2010
	•			

**CHAIN OF CUSTODY** REPORT TO: Talisman / UEG ARE SPECIAL DETECTION LIMITS W/O#: 10120831 geowetlands@aol.com NEEDED: YES / NO REFRIGERATE SAMPLES NG USED FOR: IF YES, PLEASE ATTACH NYDEC AFTER COLLECTION PADEP NYDOH DRINKING WATER SLUDGE IS A QC PACKAGE NEEDED? GROUND WATER SO SOIL CONTACT Steve Gridley SURFACE WATER HZ HAZARDOUS SW LANDFILL YES 7 NO TRANSPORT WASTE WATER OTHER DISTILLED WATER PERSONAL OTHER DEIONIZED WATER DI 607-731-0145 TO IF YES, PLEASE ATTACH REQUIREMENTS SAMPLE TYPE - GRAB/COMPOSITE F PRESERVANIE ADDED ON RECEIOT LABORATORY HYDROCHLORIC ACID OH SODIUM HYDROXIDE FAX# SULFURIC ACID AS ASCORBIC ACID IN COOLER BILL TO: Talisman NITRIC ACID AC ACETIC ACID WITH ICE COMPOSITED ON RECEIPT SO . SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE TIME OF SAUPLING MERCURIC CHLORIDE F78267 SAMPLE MATRIX O 5-00 5 Please fill out all An incomplete chain of custody may delay the applicable areas processing of your sample(s), completely SAMPLER SIGNATURE / AFFILIATION UEG CONTAINER SAMPLING POINT **ANALYSIS TO BE PERFORMED** LAB USE ONLY (PER CONTAINER) Inv Cuttings 12/6/1347/50 TPH рΗ TCLP 8 RCRA Metals + Cu. Ni. Zn 3 Free Liquids / % Moisture B- pH, Free liquia, C- Amons, metals Perform BTEX ONLY IF the TPH moistre exceeds 100,000 mg/Kg D- Total Sample フシ HOUR TURNAROUND E- TCLP metals DAY TURNAROUND 10 TEMPERATURE URONFRECEIPTE TO DESCRIPTION ARRIVAL ON ICELY reljimovísiheď by: DATE: TIME: RECEIVED BY: DATE: TIME: 1540 1216110 RELINQUISHED BY: RECEIVED BY: DATE: TIME: RECEIVED BY: RELINQUISHED BY: TIME: DATE:

PAGE 1 OF 1

PA ID #: 08-00380 NY ID #, 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121729

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr Horseheads, NY 14845

WO#:

10121729

PAGE:

1 of 3

PO#:

AF78267

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

05-005

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

TREGETTED FOR END BY: TOME	, 5/(16.	12/00/2010 10:40			1.0	age i or 5
SAMPLE: Inv. Cuttings		ab ID: 10121729-001A	Grab			
SAMPLED BY: SG	Sample	Time: 12/09/2010 13:28	SLOQ			
<u>Test</u>	Result	Method	SLOC	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	.,
Sample Note: Analysis perfor	med by QC Laboratories					
SAMPLE: Inv. Cuttings	L	ab ID: 10121729-001C	Grab		A. C. C. C. C. C. C. C. C. C. C. C. C. C.	
SAMPLED BY: SG	Sample	Time: 12/09/2010 13:28				
T	Sec. 16	5.0-1t1	SLOQ	A - ali ala Otana	A1	A
Test	Result	Method	0.0	Analysis Start 12/13/10 8:56	Analysis End	Analyst*
Cyanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2		12/14/10	HDP-CV
Reactive Sulfide	1100 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings	L	ab ID: 10121729-001D	Grab			
SAMPLED BY: SG	Sample	Time: 12/09/2010 13:28	0.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
% Solids	74,47 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	9.31 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv.	. Cuttings L	ab ID: 10121729-001F	Grab			
SAMPLED BY: SG	_	Time: 12/11/2010 12:45				
	·		SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

#### REMARKS:

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- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank

MANAGER	Carrie M. Davis	DATE:	12/16/2010

PA ID #: 08-00380 NY ID# 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121729

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

**SEND DATA TO:** 

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121729

PAGE:

2 of 3

PO#:

AF78267

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

05-005						
RECEIVED FOR LAB BY: RML	DATE	: 12/09/2010 15:45			Pa	age 2 of 3
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE: TCLP Leachate of Inv. Cuttir	ngs	Lab ID: 10121729-001G	Grab			
SAMPLED BY: SG	Samp	ole Time: 12/07/2010 8:00	• SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	
Strontium - TCLP extracted	< 0.050 mg/L	EPA 6010B	0.050	12/08/10 12:15	12/08/10	GSR-CV
Sample Note: Sample for TCLP extra	cted Strontium was re	ceived on 12/6/10 at 15:40 b	y CMS.			
SAMPLE: TCLP Leachate of Inv. Cuttir	ngs	Lab ID: 10121729-001H	Grab			
SAMPLED BY: SG	Samp	ole Time: 12/11/2010 12:45	SLOQ			
Test	Result	Method	SLOC	Analysis Start	Analysis End	Analyst *
рН	6.26@16.6°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cuttings		Lab ID: 10121729-001	Grab			
SAMPLED BY: SG	Samp	le Time: 12/12/2010 13:10				
<del>-</del> .	D#	11-41	SLOQ	Ammironia Čitania	Analusis Foot	A
Test	<u>Result</u> < 0.0250 ma/L	Method EPA 8260B	0.0250	Analysis Start 12/13/10 8:11	Analysis End 12/13/10	Analyst * CTM-SA
Benzene Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
\$ <b>\$</b>		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	
Chloroform	< 0.0250 mg/L				12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	· EPA 8260B	0.0250	12/13/10 8:11		CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

#### **REMARKS:**

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* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

B Analyte detected in the associated Method Blank

MANAGER	Carri M. Davis	DATE:	12/16/2010
	0000 7711		

PA ID #: 08-00380 NY ID# 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121729

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121729

PAGE:

3 of 3

PO#:

AF78267

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

05-005

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 3 of 3

1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cuttings	:	Lab ID: 10121729-001J	Grab			
SAMPLED BY: SG	Sam	ple Time: 12/10/2010 11:15				
			SLOQ			

SAMPLE: ASTM Extract of Inv. Cuttings

SAMPLED BY: SG

Chemical Oxygen Demand

**Test** 

Lab ID: 10121729-001L

Sample Time: 12/10/2010 11:15

Method

**HACH 8000** 

Grab SLOO

10

			<u> JLUU</u>			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
pН	7.34@16.7°C	SM4500H+B		12/14/10 8:00	12/14/10	\$G-\$A
Total Solids	1890 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA

SAMPLE: Inv. Cuttings

SAMPLED BY: SG

Lab ID: 10121729-001M Sample Time: 12/10/2010 10:25

SLOQ

Grab

Test **Total Organic Halides** 

Result < 5.00 mg/kg

Result

178 mg/L

Method SW846/9023

Analysis Start 12/15/10 15:45 5.00

Analysis Start

12/11/10 8:00

Analysis End Analyst * 12/15/10

Analysis End Analyst*

KMF-SA

12/13/10

Sample Note: Analysis performed by Analytical Services, Inc.

#### **REMARKS:**

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- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank

MANAGER	Cain	; <i>y</i>	и.	Davis	
		<u></u>			

DATE:

12/16/2010

CHAIN OF CUSTODY						E	enchm:	<u> </u>
REPORT TO: Talisman / UEG					2	566 P	nnsylvan W/O#: 10121729	SPECIAL DETECTION LIMITS
geowetlands@aol.com							Phone Fax: (570) 888-0717	EEDED: YES / NO
			ATE SA		ES	/DI	· · · · · · · · · · · · · · · · · · ·	FYES, PLEASE ATTACH
CONTROL						G	GROUND WATER SO SOIL	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley		TRANS	PORT			/ SI W		YES NO
PH# 607-731-0145		T		_		DI	DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER II	FYES, PLEASE ATTACH REQUIREMENTS
FAX#		ABOR IN CO	ATORN				/ H HYDROCHLORIC ACID OH SODIUM HYDROXIDE   / S SULFURIC ACID AS ASCORBIC ACID	
BILL TO: Talisman		WITH		,	/	/ <u>₹</u>	N NITRIC ACID AC ACETIC ACID	
PO# AF 78 26 7		7	/ _{\$}	,/		PRE- MITHER COMPOSITE	SO ₃ SODIUM SULFITE NH. AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE Hg MERCURIC CHLORIDE  An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
SAMPLER SIGNATURE / AFFILIATION	/	The SAMPLED	SAME OF SAMPLING	SAME, MATRIX	(F.77.78)	ER WITH	An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (UPER CONTAINED)	applicable areas completely
CONTAINER SAMPLING POINT	γ ,	1	1 .				ANALYSIS TO BE PERFORMED (PER CONTAINER)	LAB USE ONLY
1 Inv Cuttings	139	1328	Pe	С	83-	N	Ignitability, Reactive Sulfide & Cyanide	
2	П	П		С		$\prod$	PCBs, Total Solids	
3 A Phonts, Ign.		П		G		П	Total Volatile Solids	
4 C- Restriction		$\sqcap$	11	С	$\Pi$	$\Pi$	Ammonia-Nitrogen	
5 D- TS, TUS	$\parallel$	H	$\Pi$	С		<del>                                     </del>	Water Leaching Procedure: COD,	
6 E-Total Sample		1/	1/	C	1	$\forall V$	Total Solids, Oil & Grease,	
7 F-TOCP BNA, Posts.		-	_		<u> </u>			
8 G-TCCP Hats Sr		-	-	ļ		-		
9 H -TCEP pH	$\vdash$	4	۸۵			+=	36 HOUR TURNAROUND	
	_	,	A-S		5	<del>_</del>		
10 I-TCIP Ups.		~	- 1	STM	- (~	PP		
11 J- ASTM COD, 245		M			100			
LAB USE ONLY  A DESCRIPTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF								Garanana (ganar da
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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the sp	paces provided. 26R, reference	If additional spath	red information must ace is necessary, ider er and identify the o noted below.	ntify	Date Receive	<b>USE{O</b> ed & Ge	
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Date P	repare	d/Revised	February 11, 20	011					
		SECTION	A. CLIENT	(GENERATOR	OF THE WASTE) I	NFORM	MATION		
	any Nar								
		ergy USA Inc.							
		y, Name of Parent C	Company					Gener	ator ID#
		ergy Inc. iling Address Line 1	4	<u> </u>	ompany Mailing Addre	oo Line	N/A		
		d Place	'	CC	ompany Maining Addre	ess Line .	2		
		dress Last Line – C	itv	State	Zip+4	Ph	one		Ext
Warre	-		,	PA	15086		24) 814-530	00	
Compa	any Cor	ntact Last Name	Fire	st Name	MI		Suffix	<u>к</u>	
Brown			Dir						
Munici					County				
Warre	ndale ct Phon	F. 4	0 t t F	mail Address	Allegheny				
	314-53			man Address Otalismanusa.c	om				
		enerated at the Co						Yes	⊠ No
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Munici	pality	Troy	SECTIO		erd E DESCRIPTION			PA	Time
Munici Resi	pality dual	Troy	SECTIO esidual Waste		E DESCRIPTION	U	nit of	PA	Time Frame
Munici Resid Waste	pality dual	Troy R Co	SECTIO esidual Waste ode Description		E DESCRIPTION  Amount	U	nit of asure	PA	Time Frame
Munici Resi	pality dual	Troy	SECTIO esidual Waste ode Description	N.B. WAST	Amount 2,175	Uı Me	nit of asure	PA	
Munici Resid Waste	pality dual Code	Troy  R Co  Drill cuttings (oil a	SECTIO esidual Waste ode Description and gas)	N.B. WAST	Amount 2,175 ROPERTIES	Ur Me Cu yd	nit of asure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy  R Co  Drill cuttings (oil a	SECTIO residual Waste ode Description and gas)	N.B. WAST  1. GENERAL P. 11.3	Amount 2,175 ROPERTIES (based on analyses or lease)	Ur Me Cu yd	nit of asure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy  R Co  Drill cuttings (oil a	SECTIOn residual Waste ode Description and gas)  8.9 to Liquid	1. GENERAL P 11.3 Waste (EPA Mer	Amount 2,175 ROPERTIES (based on analyses or a thod 9095)	Ur Me Cu yd	nit of asure gal	PA	Frame
Resid Waste 810	pality dual Code pH Ra	Troy  R Co  Drill cuttings (oil a	SECTIOn residual Waste ode Description rand gas)  8.9 to Liquid	1. GENERAL P 11.3 Waste (EPA Met EPA Method 909	Amount 2,175 ROPERTIES (based on analyses or thod 9095) 95)	Ur Me Cu yd	nit of asure gal	PA D	Frame
Residuate 810	pality dual Code pH Ra Physic	Troy  R Co  Drill cuttings (oil a	SECTION Residual Waste ode Description and gas)  8.9 to Liquid Solid ( Gas (a	1. GENERAL P 11.3 Waste (EPA Met EPA Method 909 umbient temperat	Amount 2,175 ROPERTIES (based on analyses or thod 9095) 35) ture & pressure)	Ui Me □ cu yd □ Ib Knowledg	nit of asure gal don		Frame One Time
Resid Waste 810	pality dual Code pH Ra Physic	Troy  R Co  Drill cuttings (oil a	SECTIO  desidual Waste ode Description and gas)  8.9 to  Liquid  Solid ( Gas (a	1. GENERAL P 11.3 Waste (EPA Met EPA Method 909 Imbient temperat Greyish Black	Amount 2,175 ROPERTIES (based on analyses or lithod 9095) 25) cure & pressure) Odd	Ui Me □ cu yd □ lb knowledg	nit of asure gal ton ton		Frame One Time
Residuate 810	pality dual Code pH Ra Physic	Troy  R Co  Drill cuttings (oil a	SECTION Residual Waste ode Description and gas)  8.9 to Liquid Solid ( Gas (a Color Number of	1. GENERAL® P. 11.3 Waste (EPA Met EPA Method 909 ambient temperat Greyish Black	Amount  2,175  ROPERTIES (based on analyses or lethod 9095) (b5) (bases of Separation)	Ui Me Cu yd Ib  knowledg	nit of asure gal ston e)		One Time
Residuate 810	pality dual Code pH Ra Physic	Troy  R Co  Drill cuttings (oil a	SECTION Residual Waste ode Description and gas)  8.9 to Liquid Solid ( Gas (a Color Number of	1. GENERAL® P. 11.3 Waste (EPA Met EPA Method 909 ambient temperat Greyish Black	Amount 2,175 ROPERTIES (based on analyses or lithod 9095) 25) cure & pressure) Odd	Ui Me Cu yd Ib  knowledg	nit of asure gal ston e)		One Time
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Residuante 810  a. b.	pality dual Code pH Ra Physic Physic The re instruct A deta	Troy  R Co Drill cuttings (oil a  nge cal State  cal Appearance  sults of a detailed of citions, is attached. illed description of uality assurance/qu	SECTIO  desidual Waste ode Description and gas)  8.9 to Liquid Solid (Gas (a Color Number of Describe & Color Describe & Color Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe & Color Describe	1. GENERAL P 11.3 Waste (EPA Meter PA Method 909 ambient temperate Greyish Black foolid or Liquid each phase of set phase of the ling method is a	Amount  2,175  ROPERTIES (based on analyses or lethod 9095) (bits) (bure & pressure)  Odd Phases of Separation eparation. Soil and Reference of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation of Separation o	Cu yd lb lb lb lb lb lb lb lb lb lb lb lb lb	e)  rthy / Slight e ments	Petro	One Time
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		3. Process Description				
a.	A detailed description of the waste, as specified in			esses producing	⊠ Yes	☐ No
b.	A schematic of the manuf as specified in the instruc		control processes pro	ducing the waste,	⊠ Yes	☐ No
c.	If portions of the informat a confidentiality claim, as			on for Yes	☐ No	⊠ N/A
	SEC	TION C. MANAGEN	MENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(I			17.27
The ar	rea below (ad.) will accomi	nodate the identification o	of two facilities. Attac	h additional sheets	if necessary	
a.	Solid waste permit numbe 9-0232-00003	r(s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	Hyland Landfill				
	Address Line 1	6653 Herdman Roa	d			
	Address Line 1					
	Address City State ZIP	Angelica	NY	14709		.=,.,,,,
	Municipality	Angelica	County	Allegany		
C.	Facility Contact Name	Larry Shilling				
	Title					
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped 1,255	cu yd gal	☐ lb      to	n (check one)		
a.	Solid waste permit numbe 8-0728-00004	r(s) for processing or disp	osal facility being uti	lized.		
b.	Facility Name	Chemung County La	andfill			
	Address Line 1	1690 Lake Street				
	Address Line 1					*******
	Address City State ZIP	_Elmira	NY	14903		
	Municipality	Elmira	County	Chemung		
c.	Facility Contact Name	Carla Canjar				
	Title	Environmental Mana				
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com	
d.	Volume of waste shipped	to processing or disposal	facility in the previous		,=,,,,	<del>-</del>
	548	🗌 cu yd 🔲 gal	☐ lb 🛚 tor	n (check one)		
		2. BEN	EFICIAL USE			
a.	Has the waste been appro	ved for beneficial use?			Yes	⊠ No
	If "Yes", list the general pe	ermit number or approval	number.			
b.	Volume of waste beneficia					
				_ /-11		
	0	☐ cu yd ☐ gal	☐ lb ☐ tor	n (check one)		

		PROCESS DESCRIPTION			100	
а.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufactor as specified in the instruction	turing and/or pollution ones, is attached.	control processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the informatio a confidentiality claim, as d			on for Yes	☐ No	⊠ N/A
	SECT	ION C. MANAGEN	in the second control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control			
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The ar	ea below (ad.) will accommo				if necessary	
a.	Solid waste permit number( 101243	s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	Northern Tier Solid				
	Address Line 1	108 Steam Hollow F	Road			
	Address Line 1	<del></del>				
	Address City State ZIP	Troy	PA PA	16947		
	Municipality	West Burlington Tw	County	Bradford		
c.	Facility Contact Name	Charles Woodward			······	
	Title	(570) 007 4477		<del> </del>		
	Phone	(570) 297-4177	Email Address	chuckwoodward	@epix.net	_
d.	Volume of waste shipped to 372	processing or disposal cu yd gal	facility in the previou	•		
а.	Solid waste permit number(	s) for processing or disp	osal facility being uti	lized.		
b.	Facility Name					
	Address Line 1					
	Address Line 1					
	Address City State ZIP					
	Municipality		County			
c.	Facility Contact Name					
	Title		F			
	Phone		Email Address			
d.	Volume of waste shipped to	cuyd 🔲 gal	☐ lb ☐ tor			
			EFICIAL USE	7.00		172
a.	Has the waste been approve				Yes	⊠ No
	If "Yes", list the general per					
b.	Volume of waste beneficially 0	r used in the previous year cuyd gal	ear.	n (check one)		****

			SECTION D. CERTIFICATION
Repo obtai know	ort and all attached docu ning the information, I villedge. I understand that	ments erify the s	nave personally examined and am familiar with the information submitted in this Annual and that based upon my inquiry of those individuals immediately responsible for that the submitted information is true, accurate and complete to the best of my submission of false information herein is made subject to the penalties of 18 Pa. C.S. on to authorities, which include fine and imprisonment.
Chec	k the following, if applicat	ole:	
	l certify the information and has not chan		ired in Section B-1, General Properties was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	l certify the information and has not chan	-	ired in Section B-2, Chemical Analysis was supplied to the Department for the year
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
	I certify the information of for the year and h		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Name	of Responsible Official		Title Environmental Specialist
Dina	Brown		
Signa	nture	5	Date 2/25/11
			t .

LAB ID: 08-00380 LAB ID: 39-00401

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave.

Sayre, PA 18840

Work Order: 10032816

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 50 Pennwood Place

Warrendale, PA 15086

WO#:

10032816

PAGE:

1 of 1

PO#:

PHONE:

FAX:

(607) 562-4000 (607) 562-4001

**TEST REPORT** 

PWS ID#

RECEIVED FOR LAB BY: DLM2

DATE: 03/17/2010 14:47

Page 1 of 1

SAMPLE: Inv. Cuttings SAMPLED BY: -

Unknown

Lab ID: 10032816-001A

Sample Time: 03/16/2010 0:00

Grab **SLOQ** 

Test Result

Method Subcontract **Analysis Start** 

Analysis End Analyst *

04/20/10 0:00 04/20/10

Sample Note: Analysis performed by Texas Oil Tech Laboratories, Inc.

See Attached

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Carrie M. Davis **MANAGER** DATE: 4/21/2010

CHAIN OF CUSTODY	_		k Analytics. Inc.	PAGEO	F
Geowetlonds	,	East 2566 Pennsylvania Phone: Fax: (5	10032816 03/17/10 14:47 Talisman Energy USA, Inc.		ON LIMITS
CONTACT Steve Cridley	REFRIGERATE SAMPLES AFTER COLLECTION TRANSPORT	DW DRINKING W. GW GROUND WA SW SURFACE W. WW WASTE WATE	TER SO SOIL NTER HZ HAZARDOUS LANDFILL	3, PLEASE ATTACH PADEP IS A QC PACKAGE YES	E NEEDED?
PH# FAX# BILL TO: To Isman	1 **	/ DE DEIONIZED V	WATER DI DISTILLED WATER PERSONAL OTHER  HYDROCHLORIC ACID OH SODIUM HYDROXIDE SULFURIC ACID AS ASCORBIC ACID  NITRIC ACID AC ACETIC ACID  SODIUM SULFITE NH4 AMMONIUM CHLORIDE	ion	REQUIREMENTS
PO# AF 757/5 PROJECT DESCRIPTION F/7-54 SAMPLER SIGNATURE / AFFILIATION  9 9 1 1 5 4	DATE SAMPLED TIME OF SAMPLED SAMPLE THERE	m-1 /	NONE Hg MERCURIC CHLORIDE	le Point	Please fill out all applicable areas completely.
1 Inv Cuffros	3/16 - 50 0		Barite by	X-Ray	LAB USE ONLY -001*
2 3			Smectite Diffs Clay minerology	action /	
5 6			Arthurche Coal 0/6 0	fin	
7 8 9			POLYMERS	www.	<b>7</b>
10 11 LABUSE O'NLY			48 Ar lemowed	10.3130110.0	
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RELINQUISHED BY:	'DATE: , , ,	TIME:	RECEIVED BY: Junty	DATE:	TIME: 14:47

Ad Graphics Printing 570-888-0685

## **Certificate of Analysis**



SINCE 1985

Quality Controlled Through Analysis

10630 FALLSTONE RD. HOUSTON, TEXAS 77099 P.O. BOX 741905, HOUSTON, TEXAS 77274

> TEL: (281) 495-2400 FAX: (281) 495-2410

Tas:	2n=n
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CLIENT:	Benchn	nark Analytics, Inc.	REQUESTED BY:	Mr. Tracy Cole
SAMPLE:	100328	16-001A	REPORT DATE:	April 20, 2010
LABORATOR	RY NO:	58869	PURCHASE ORDER NO:	Pending

TEST RESULTS

Anthracite Coal, wt%	<1.0
Bituminous Coal, wt%	<1.0
Organic Carbon Content, wt%	6.44
Crude Oil	3.84
Polymer	<1.0

X-Ray Diffraction Analysis

Mineral Phases	Amount Found, wt%
Quartz (SiO ₂ )	28
Barite (BaSO ₄ )	55
Calcite (CaCO ₃ )	ND
Magnetite (Fe ₃ O ₄ )	7
Non-Diffractive Solids	10

Respectfully submitted
For Texas Oil Tech Laboratories, L.P.

(N/N)

A. Phii Solurbakh

Director of Laboratory Operations







#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

#### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed o	r legibi ttached	ly printed in the d sheet as Fo	e spaces p rm 26R, re	rovided. If additional sp ference the item numb needs to match the date	ber and identify the	ntify 🗀		ed & General Not	tes
Genera	l Refer	ence 287.54							
Date Pr	epared	/Revised	Febru	ary 11, 2011					
		SECTI	ON A. C	LIENT (GENERATOI	R OF THE WASTE) I	NFORM	ATION		
Compa									
		rgy USA Inc.							
		, Name of Pare	ent Compan	ıy				Generator ID#	
		rgy Inc.		······	A# *!! A B E		N/A		
50 Pen	-	ing Address Li	ne 1	C	Company Mailing Addr	ess Line 2			
		ress Last Line	- City	State	Zip+4	Pho		Ext	
Warren	-	less Last Lille	- City	PA	15086		1) 814-530		
	Company Contact Last Name First Name			MI	(127	Suffix			
Brown	,		•	Dina				•	
Municip	ality				County				
Warren	-				Allegheny				
Contact	t Phone	) E	xt C	ontact Email Address					
(724) 8				ybrown@talismanusa.					
				Mailing Address (noted					Vo.
				ation and storage. <u>Drill</u>					
in contai			ell pad site	located at 1242 Swamp F	Road, Armenia Townshi	p, Bradford	County, PA	A. Waste is sto	ored
			a	County Bradfe	ord	9	State	ΡΔ	
Municip		Armenia		County Bradf			State	PA	
Municip	pality		S	ECTION B. WAST					
	ual			ECTION B. WAST			t of	PA Time Frame	
Municip Resid Waste (	ual	Armenia	Residual Code Des	ECTION B. WAST Waste cription	Amount	<b>j</b> Uni	t of	Time	
Municip Resid	ual		Residual Code Des	ECTION B. WAST Waste cription	E DESCRIPTION	Uni Mea	t of sure	Time	me_
Municip Resid Waste (	ual	Armenia	Residual Code Des	ECTION B. WAST Waste cription	Amount 5,840 PROPERTIES	Uni Meas Cu yd	t of sure gal	Time Frame	me
Resid Waste 0 810	ual Code	Armenia Drill cuttings (	Residual Code Des	Waste cription  3)  1. GENERAL F  to 8.14	Amount  5,840  PROPERTIES (based on analyses or	Uni Meas Cu yd	t of sure gal	Time Frame	me
Resid Waste 0 810	ual Code	Armenia Drill cuttings (	Residual Code Des oil and gas	Waste cription  i)  1. GENERAL F  to 8.14  Liquid Waste (EPA Me	Amount 5,840 PROPERTIES (based on analyses or ethod 9095) 195)	Uni Meas Cu yd	t of sure gal	Time Frame	me
Resid Waste (810	ual Code pH Ran Physica	Armenia Drill cuttings (	Residual Code Des foil and gas 7.99	ECTION B. WAST Waste cription  1. GENERAL F to 8.14 Liquid Waste (EPA Met Solid (EPA Method 90 Gas (ambient temperator) Greyish Black	Amount 5,840 PROPERTIES (based on analyses or ethod 9095) 195) 1 ture & pressure)	Uni Mea: Cu yd Db	t of sure gal ton	Time Frame	me
Resid Waste (810	ual Code pH Ran Physica	Armenia Drill cuttings (	Residual Code Des foil and gas 7.99	ECTION B. WAST Waste cription  1. GENERAL F to 8.14 Liquid Waste (EPA Met Solid (EPA Method 90) Gas (ambient tempera	Amount 5,840 PROPERTIES (based on analyses or ethod 9095) 195) 1 ture & pressure)	Uni Mea: Cu yd Db	t of sure gal ton	Time Frame One Tir	me
Resid Waste (810	ual Code pH Ran Physica	Armenia Drill cuttings (	Residual Code Des oil and gas 7.99	ECTION B. WAST Waste cription  1. GENERAL F to 8.14 Liquid Waste (EPA Met Solid (EPA Method 90 Gas (ambient temperator) Greyish Black	Amount 5,840  PROPERTIES (based on analyses or ethod 9095) (95) ature & pressure) Odd Phases of Separatio	Uni Mea: Cu yd b knowledge)  or Earti n One	t of sure gal X ton	Time Frame One Tir	me
Resid Waste (810	ual Code pH Ran Physica	Armenia Drill cuttings (	Residual Code Des oil and gas 7.99	ECTION B. WAST  Waste cription  1. GENERAL F  to 8.14  Liquid Waste (EPA Met  Solid (EPA Method 90)  Gas (ambient temperator olor Greyish Black umber of Solid or Liquid escribe each phase of secribe secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secribe each phase of secription secribe each phase of secription secription in the secription of secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secription in the secreption in the sec	Amount 5,840  PROPERTIES (based on analyses or ethod 9095) 1955) 1010 1011 1011 1011 1011 1011 1011 1	Uni Mea: Cu yd b knowledge)  or Earti n One	t of sure gal X ton	Time Frame One Tir	me
Resid Waste (810	pality  ual Code  pH Ran Physica	Armenia  Drill cuttings (  al State  al Appearance	Residual Code Des oil and gas 7.99	ECTION B. WAST  Waste cription  1. GENERAL F  to 8.14  Liquid Waste (EPA Met  Solid (EPA Method 90)  Gas (ambient temperation of Solid or Liquid escribe each phase of second conciliation of the second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid or Liquid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe each phase of second conciliation of Solid escribe escribe each phase escribe each phase escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe escribe	Amount  5,840  PROPERTIES (based on analyses or ethod 9095) (955) ature & pressure) Cod Phases of Separation Soil and R	Uni Mea: Cu yd b knowledge)  or Earti n One ock Fragm	t of sure gal \times ton	Time Frame One Tir	
Resid Waste (810	pH Ran Physica The resinstruct	Armenia  Drill cuttings (  age al State  al Appearance	Residual Code Des foil and gas 7.99  Code Code Code Code Code Code Code Cod	Waste cription  S  1. GENERAL F  to 8.14  Liquid Waste (EPA Method 90  Gas (ambient tempera olor Greyish Black umber of Solid or Liquid escribe each phase of solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of th	Amount  5,840  PROPERTIES (based on analyses or ethod 9095)  995) ature & pressure)  Odd Phases of Separation separation. Soil and R  SIS ATTACHMENTS e waste, as described	Uni Mea: Cu yd b knowledge)  or Earti n One ock Fragm	t of sure gal \times ton	Time Frame One Tir	me Jo
Resid Waste (810	pH Ran Physica The res instruct A detail	Armenia  Drill cuttings (  age al State  al Appearance  sults of a detail tions, is attach led description	Residual Code Des foil and gas 7.99  C C N D ed chemicaed.	Waste cription  S  1. GENERAL F  to 8.14  Liquid Waste (EPA Method 90  Gas (ambient tempera olor Greyish Black umber of Solid or Liquid escribe each phase of solid characterization of the steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method	Amount  5,840  PROPERTIES (based on analyses or ethod 9095) (95) (bature & pressure) (based on Separation Soil and Research Separation Soil and Research Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation S	Uni Meas Cu yd Ib knowledge)  or Earth n One ock Fragm	t of sure gal Ston	Time Frame  One Time  Petroleum  Yes N	No No
Resid Waste (810	pH Ran Physica The res instruct A detail	Armenia  Drill cuttings (  al State  al Appearance  sults of a detail tions, is attach led description ality assurance	Residual Code Des foil and gas 7.99  C C N D ed chemicaed.	Waste cription  S  1. GENERAL F  to 8.14  Liquid Waste (EPA Method 90  Gas (ambient tempera olor Greyish Black umber of Solid or Liquid escribe each phase of solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of the solid characterization of th	Amount  5,840  PROPERTIES (based on analyses or ethod 9095) (95) (bature & pressure) (based on Separation Soil and Research Separation Soil and Research Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation S	Uni Meas Cu yd Ib knowledge)  or Earth n One ock Fragm	t of sure gal Ston	Time Frame  One Tir  Petroleum  Yes	10
Resid Waste (810	pH Ran Physica Physica The res instruct A detail The qua attache	Armenia  Drill cuttings (  age al State  al Appearance  sults of a detail tions, is attach led description ality assurance	Residual Code Des foil and gas 7.99 C C N D ed chemica ed. of the was	Waste cription  S  1. GENERAL F  to 8.14  Liquid Waste (EPA Method 90  Gas (ambient tempera olor Greyish Black umber of Solid or Liquid escribe each phase of solid characterization of the steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method is a steep sampling method	Amount  5,840  PROPERTIES (based on analyses or ethod 9095)  995) ature & pressure)  Odd Phases of Separation separation. Soil and R SIS ATTACHMENTS a waste, as described attached.  yed by the laboratory(	Uni Meas Cu yd Ib knowledge)  or Earth n One ock Fragm	t of sure  gal Ston  Sight	Time Frame One Time Petroleum  Yes N Yes N	No No

the waste, as specified in the instructions, is attached.  b. A schematic of the manufacturing and/or pollution control processes producing the waste, as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for a confidentiality claim, as described in the instructions, is attached.  SECTIONIC. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)	∑ Yes ☐ No
as specified in the instructions, is attached.  c. If portions of the information submitted are confidential, the substantiation for Yes No No a confidentiality claim, as described in the instructions, is attached.  SECTIONIC. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)	
a confidentiality claim, as described in the instructions, is attached.  SECTIONIC. MANAGEMENT OF RESIDUAL WASTE  1. PROCESSING OR DISPOSAL FACILITY (IES)	□ No ☑ N/A
1. PROCESSING OR DISPOSAL FACILITY (IES)	
	***
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.	f necessary.
a. Solid waste permit number(s) for processing or disposal facility being utilized. 9-0232-00003	
b. Facility Name Hyland Landfill	
Address Line 1 6653 Herdman Road	
Address Line 1	
Address City State ZIP Angelica NY 14709	
Municipality Angelica County Allegany	
c. Facility Contact Name Larry Shilling	
Title	
Phone (585) 466-7271 Email Address   Jarry shilling@casella.com	
(coo) to the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the transfer of the t	sella.com
d. Volume of waste shipped to processing or disposal facility in the previous year.  2,226	ella.com
d. Volume of waste shipped to processing or disposal facility in the previous year.	sella.com
d. Volume of waste shipped to processing or disposal facility in the previous year.  2,226	sella.com
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d. Volume of waste shipped to processing or disposal facility in the previous year.  2,226	lla.com
d. Volume of waste shipped to processing or disposal facility in the previous year.  2,226	lla.com

		3. PROCESS DESCRIPTION			35	
a.	A detailed description of the the waste, as specified in t			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct	ions, is attached.		_	⊠ Yes	☐ No
C.	If portions of the informati a confidentiality claim, as	on submitted are confident described in the instruction	tial, the substantiations, is attached.	on for 📋 Yes	☐ No	⊠ N/A
	SEC	TION C. MANAGEM	ENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(I			
The a	rea below (ad.) will accomn	nodate the identification of	two facilities. Attac	h additional sheets	if necessary	1.
a.	Solid waste permit number 8-0728-00004	(s) for processing or dispo	osal facility being uti	lized.		
b.	Facility Name	Chemung County La	ndfill			
İ	Address Line 1	1690 Lake Street				
	Address Line 1				_	
	Address City State ZIP	Elmira	NY	14903		
	Municipality	Elmira	County	Chemung	_	
c.	Facility Contact Name	Carla Canjar				
	Title	Environmental Manag				
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com	
d.	Volume of waste shipped t 661	o processing or disposal f Cuyd gal	acility in the previous			
а.	Solid waste permit number 101243	(s) for processing or dispo	osal facility being uti	lized.		
b.	Facility Name	Northern Tier Solid W	/aste Authority			
	Address Line 1	108 Steam Hollow Ro	oad			
	Address Line 1			<del> </del>		
	Address City State ZIP	Troy	PA	16947		
	Municipality	West Burlington Twp	County	Bradford		
C.	Facility Contact Name	Charles Woodward	····			····
	Title					
	Phone	(570) 297-4177	Email Address	chuckwoodward(	@epix.net	
d.	Volume of waste shipped to 476	o processing or disposal fa	acility in the previous			
	·	2. Bene	FICIAL USE			
a.	Has the waste been approv				Yes	⊠ No
	If "Yes", list the general pe		umber.		_	_
b.	Volume of waste beneficial					
	0	☐ cu yd ☐ gal	☐ Ib ☐ tor	n (check one)		
1		<del></del>	****			

		PROCESS DESCRIPTION				
a.	A detailed description of the the waste, as specified in the	instructions, is attached			⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction		ntrol processes prod	ucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			for Yes	☐ No	⊠ N/A
26.1.7.5	SECTIO	N.C. MANAGEME	A CONTRACT CONTRACT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PRO	- museum empende resemble segunden segunden sehr se segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segunden segun		
The ar	ea below (ad.) will accommod	1. PROCESSING OR D			f nococcany	<u> </u>
a.	Solid waste permit number(s) 100361	for processing or dispo	sai facility being utiliz	zea. 		
b.	Facility Name	McKean County Land	fill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				
	Title	(0.4.4) 770 0004	E. 1.4.1.1			
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped to p	rocessing or disposal fa cu yd gal	cility in the previous    lb   ( ton	year. (check one)		
a.	Solid waste permit number(s)	for processing or dispos	sal facility being utiliz	zed.		· · · · · · · · · · · · · · · · · · ·
b.	Facility Name					***
ĺ	Address Line 1					
	Address Line 1					
	Address City State ZIP	··········				
	Municipality		County			
c.	Facility Contact Name			****		
	Title					
	Phone		Email Address			
d.	Volume of waste shipped to p	cu yd 📗 gal	☐ lb ☐ ton	year. (check one)		
			FICIAL USE			
a.	Has the waste been approved				Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially 0	used in the previous yea cu yd ☐ gal	r.	(check one)		
	<del></del>					

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year _ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title **Environmental Specialist** Dina Brown Date Signature

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040648

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10040648

PAGE:

1 of 3

PO#:

AFE 76067

**TEST REPORT** 

PHONE: FAX:

(607) 731-0145 (607) 562-4001

PWS ID#

TWL 01-016-04

RECEIVED FOR LAB BY: WCB

DATE: 04/06/2010 8:45

Page 1 of 3

RECEIVED FOR LAB BY. WCB	DATE	04/00/2010 0.43				age 1 01 3
SAMPLE: In Cuttings - Bin SAMPLED BY: DB		ab ID: 10040648-001A Time: 04/05/2010 18:00	Grab			
SAMI ELODI. DD	Cample	11116. 04/03/2010 10:00	Reg			
<u>Test</u>	Result	<u>Method</u>	Limit	Analysis Start	Analysis End	Analyst *
рH	7.99 @ 23.4°C	EPA 9045D		04/07/10 11:55	04/07/10	NC-CV
Total Petroleum Hydrocarbons	57000 mg/Kg	EPA 1664A		04/07/10 12:40	04/07/10	DTG-CV
SAMPLE: In Cuttings - Bin	L	ab ID: 10040648-001B	Grab			
SAMPLED BY: DB	Sample	Time: 04/05/2010 18:00				
<u>Test</u>	Result	Method	Reg Limit	Analysis Start	Analysis End	Analyst *
% Solids	75.37 % Wght.	SM2540B		04/06/10 14:30	04/07/10	NFM-SA
SAMPLE: TCLP Leachate of In Cu	ttings - Bln L	ab ID: 10040648-001D	Grab			
SAMPLED BY: DB	Sample	Time: 04/07/2010 6:45				
<u>Test</u>	Result	<u>Method</u>	<u>Reg</u> Limit	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.008	04/07/10 11:30	04/07/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	04/07/10 11:45	04/07/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	100	04/07/10 11:45	04/07/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	1	04/07/10 11:45	04/07/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	04/07/10 11:45	04/07/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B		04/07/10 11:45	04/07/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	04/07/10 11:45	04/07/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B		04/07/10 11:45	04/07/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	1	04/07/10 11:45	04/07/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	5	04/07/10 11:45	04/07/10	RMD-CV
Zinc - TCLP extracted	0.939 mg/L	EPA 6010B		04/07/10 11:45	04/07/10	RMD-CV

#### **REMARKS:**

The above test procedures meet all the requirements of NELAC and relate only to these samples.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- S Spike Recovery outside accepted recovery limits

MANAGER	Carre	M. Davis	DA	ATE: _	4/8/2010

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040648

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10040648

PAGE:

2 of 3

PO#:

AFE 76067

PHONE:

(607) 731-0145

FAX:

(607) 562-4001

**TEST REPORT** 

PWS ID#

TWL 01-016-04

RECEIVED FOR LAB BY: WCB

DATE: 04/06/2010 8:45

Page 2 of 3

SAMPLE: TCLP Leachate of In Cuttings	- Bin	Lab ID:	10040648-001E	Grab			
SAMPLED BY: DB		Sample Time: 0	4/07/2010 6:45	_			
Test	Result		Method	<u>Req</u> Limit	Analysis Start	Analysis End	Analyst *
Pyridine	< 0.10 mg/L		EPA 8270C	5	04/07/10 16:52	04/07/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L		EPA 8270C	7.5	04/07/10 16:52	04/07/10	RHH-SA
o-Cresol	< 0.10 mg/L		EPA 8270C	200	04/07/10 16:52	04/07/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L		EPA 8270C	200	04/07/10 16:52	04/07/10	RHH-SA
Hexachloroethane	< 0.10 mg/L		EPA 8270C	3	04/07/10 16:52	04/07/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	S	EPA 8270C	2	04/07/10 16:52	04/07/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L		EPA 8270C	0.5	04/07/10 16:52	04/07/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L		EPA 8270C	2	04/07/10 16:52	04/07/10	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L		EPA 8270C	400	04/07/10 16:52	04/07/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L		EPA 8270C	100	04/07/10 16:52	04/07/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L		EPA 8270C	0.13	04/07/10 16:52	04/07/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L		EPA 8270C	0.13	04/07/10 16:52	04/07/10	RHH-SA
SAMPLE: ZHE Extract of In Cuttings - Bir	1	Lab ID: 1	0040648-001F	Grab			
SAMPLED BY: DB		Sample Time: 0	4/07/2010 6:45				
<u>Test</u>	Result	·	Method	Reg Limit	Analysis Start	Analysis End	Analyst *
Benzene - TCLP extracted	< 0.100 mg/L		EPA 8260B	0.5	04/07/10 14:19	04/08/10	DN-CV
Carbon tetrachloride - TCLP extracted	< 0.100 mg/L		EPA 8260B	0.5	04/07/10 14:19	04/08/10	DN-CV
Chlorobenzene - TCLP extracted	< 0.100 mg/L		EPA 8260B	100	04/07/10 14:19	04/08/10	DN-CV
Chloroform - TCLP extracted	< 0.100 mg/L		EPA 8260B	3	04/07/10 14:19	04/08/10	DN-CV
1,4-Dichlorobenzene - TCLP extracted	< 0.100 mg/L		EPA 8260B	7.5	04/07/10 14:19	04/08/10	DN-CV
1,2-Dichloroethane - TCLP extracted	< 0.100 mg/L		EPA 8260B	0.5	04/07/10 14:19	04/08/10	DN-CV

#### **REMARKS:**

The above test procedures meet all the requirements of NELAC and relate only to these samples.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- S Spike Recovery outside accepted recovery limits

	/ /	- ·		
MANAGER	Carri	M /avis	DATE:	4/8/2010

## Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040648

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10040648

PAGE:

3 of 3

PO#:

AFE 76067

. . .

PW\$ ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

TWI 01-016-04

EIVED FOR LAB BY: WCB	DATE:	04/06/2010 8:45			P	age 3 of 3
1,1-Dichloroethene - TCLP extracted	< 0.100 mg/L	EPA 8260B	0.7	04/07/10 14:19	04/08/10	DN-CV
Methyl ethyl ketone - TCLP extracted	< 0.500 mg/L	EPA 8260B	200	04/07/10 14:19	04/08/10	DN-CV
Tetrachloroethene - TCLP extracted	< 0.100 mg/L	EPA 8260B	0.7	04/07/10 14:19	04/08/10	DN-CV
Trichloroethene - TCLP extracted	< 0.100 mg/L	EPA 8260B	0.5	04/07/10 14:19	04/08/10	DN-CV
Vinyl chloride - TCLP extracted	< 0.100 mg/L	EPA 8260B	0.2	04/07/10 14:19	04/08/10	DN-CV

#### **REMARKS:**

The above test procedures meet all the requirements of NELAC and relate only to these samples.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

S Spike Recovery outside accepted recovery limits

MANAGER Carry M. Davis	DATE: 4/8/20	)10
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CHAIN OF CUSTODY			Ben	chmark An				PAGE	_OF
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	REFRIGERAT	E SAMPLES				RESULTS ARE BI	ING USED FOR:	IF YES, PLEASE ATTAC	СН
	AFTER COLL	ECTION		RINKING WATER	SL SLUDGE	NYDOH N	YDEC PADEP	IS A QC PACKA	AGE NEEDED?
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## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10030695

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr.

Horseheads, NY 14845

WO#: PAGE: 10030695

1 of 1

PO#:

**TEST REPORT** 

PW\$ ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

NTSW TCLP Metals/TPH/pH/%Moisture

RECEIVED FOR LAR BY: WCB

RECEIVED FOR LAB BY: WCB	DATE:	03/03/2010 9:38			P	age 1 of 1
SAMPLE: Air Cuttings TWL-1	Ļ	ab ID: 10030695-001A	Grab			
SAMPLED BY: SG	Sample	Time: 03/02/2010 11:00	01.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
pH	8.14 @ 25.3°C	EPA 9045D		03/08/10 14:37	03/08/10	NC-CV
Chloride	466 mg/Kg	EPA 300.0	50.0	03/10/10 14:03	03/11/10	HDP-CV
Total Petroleum Hydrocarbons	< 170 mg/Kg	EPA 1664A	170	03/16/10 13:30	03/16/10	DTG-CV
SAMPLE: TCLP Leachate of Air Cut	ttings TWL-1	ab ID: 10030695-001C	Grab		***************************************	
SAMPLED BY: SG	Sample 1	Time: 03/02/2010 11:00				
Test	Popult	Method	SLOQ	Analysis Stort	Analysia End	Analyst *
	Result		0.0009	Analysis Start	Analysis End	Analyst*
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	03/11/10 8:30	03/12/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	03/10/10 13:40	03/11/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L.	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	03/10/10 13:40	03/11/10	RMD-CV

#### **REMARKS:**

The above test procedures meet all the requirements of NELAC and relate only to these samples. * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

	/ 1	- ·		
MANAGER	(144.4)	na Javis	DATE:	3/17/2010
110 1111 (02)		7913		

CHAIN OF CUSTODY		Benchmar	k Analytics, Inc.		PAGEOI	F
REPORT TO: Talisman			ern Division			
lalisman	2		Avenue • Sayre, PA 18840	r	ARE SPECIAL DETECTIO	N LIMITS
			(570) 888-0169			` I
		Fax: (5	570) 888-0717		NEEDED: YES /	
	REFRIGERATE SAMPLES		RESULTS	ARE BEING USED FOR:	IF YES, PLEASE ATTACH	ļ
	AFTER COLLECTION	DW DRINKING W		NYDEC PADEP	IS A QC PACKAGE	NEEDED?
CONTACT C/	+	GW GROUND WA		LANDFILL	_	(SI)
CONTACT Sleve Gridley	TRANSPORT	/ SH SUMMERS			(	
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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

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Gener	al Refe	rence 287.54									
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	any Nar										
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•	-	ntact Last Nan	ne	First Name	MI			Suffi	X		
Brown Munic			**	Dina	Country			_			
Warre					<b>County</b> Allegheny						
	ct Phon	е	Ext	Contact Email Address	Megnerry						
(724)	814-53	21		dybrown@talismanusa.d	com						
				Mailing Address (noted			***************************************		Yes		No
	descril	be location of	waste gene	ration and storage. Drill o	cuttings are generated of	luring	natural	gas dril	ling ope	eration	s at
the	ners on s		l pad site loc	ated at 1226 Besley Road,	Columbia Township, Bi	adtor	d Count	у, РА.	Waste_	s store	ed in
Munic			nbia	County Bradfo	ord		Sta	ate	PA		
		Colum					Sta	ite	PA		
	ipality			County Bradfo			Sta Unit o		PA_	Time	9
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Munic Resi Waste	ipality dual	Colum	Residua Code De	SECTION B. WAST al Waste scription	E DESCRIPTION  Amount	☐ cı	Unit o Measu u yd	ı <b>f</b> re ⊡ gal	PA	Fram	ie
Resi Waste	dual Code		Residua Code De	SECTION B. WAST al Waste scription as)	Amount 6,866		Unit o Measu u yd	f re	PA		ie
Resi Waste 810	dual Code	Colum Drill cuttings	Residua Code De s (oil and ga	SECTION B. WAST al Waste scription as) 1. General P	Amount 6,866 PROPERTIES	Ct	Unit o Measu u yd	ı <b>f</b> re ⊡ gal	PA	Fram	ie
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Resi Waste 810	dual Code pH Ra	Colum Drill cuttings	Residua Code De s (oil and ga	SECTION B. WAST al Waste scription as) 1. General P	Amount 6,866 PROPERTIES (based on analyses or bethod 9095)	Ct	Unit o Measu u yd	ı <b>f</b> re ∐ gal	PA	Fram	ie
Resi Waste 810	dual Code pH Ra	Colum Drill cuttings	Residua Code De s (oil and ga	SECTION B. WAST al Waste scription as) 1. GENERAL P to 11.3 Liquid Waste (EPA Me	Amount 6,866 PROPERTIES (based on analyses or lethod 9095) 95)	Ct	Unit o Measu u yd	ı <b>f</b> re ∐ gal	PA	Fram	ie
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Resi Waste 810 a. b.	dual Code pH Ra Physic	Colum Drill cuttings nge cal State	Residua Code De s (oil and ga 8.9	SECTION B. WAST al Waste scription as)  1. GENERAL P to 11.3 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	Amount 6,866 PROPERTIES (based on analyses or lethod 9095) 95) (ture & pressure)	□ cu □ lb	Unit o Measu u yd edge)	of re ☐ gal ☑ ton		One	ie
Resi Waste 810 a. b.	dual Code pH Ra Physic	Colum Drill cuttings nge cal State	Residua Code De s (oil and ga 8.9	SECTION B. WAST al Waste scription as)  1. GENERAL P to 11.3 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black	Amount 6,866 PROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Of Phases of Separation	cu lb	Unit o Measu yd edge) Earthy One	of re ☐ gal ☑ ton		One	ie
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Resi Waste 810  a. b.	dual Code pH Ra Physic Physic	Drill cuttings  nge cal State  cal Appearance sults of a detactions, is attactiled description	Residua Code De s (oil and ga 8.9 8.9 ee 6	SECTION B. WAST al Waste scription as)  1. GENERAL P to 11.3 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS cal characterization of the	Amount 6,866 PROPERTIES (based on analyses or lethod 9095) 95) Iture & pressure) Odd Phases of Separation Peparation. Soil and Resistant Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleto	cu lb	Unit o Measu J yd edge)  Earthy One ragmer	of re	t Petro	One	Time  No  No
Resi Waste 810 a. b.	dual Code  pH Ra Physic  Physic  The re instruct A deta The qu	Drill cuttings  nge cal State  cal Appearance sults of a detactions, is attactiled descriptionality assurance	Residua Code De s (oil and ga 8.9 8.9 ee 6	SECTION B. WAST al Waste scription as)  1. GENERAL P to 11.3 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS cal characterization of the	Amount 6,866 PROPERTIES (based on analyses or lethod 9095) 95) Iture & pressure) Odd Phases of Separation Peparation. Soil and Resistant Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleton Attachments Outleto	cu lb	Unit o Measu J yd edge)  Earthy One ragmer	of re ☐ gal ☑ ton ☐ / Sligh	t Petro	One	Time  No
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		PROCESS DESCRIPTION				100000	
a.	A detailed description of the the waste, as specified in the	instructions, is attached	1.	-	⊠ Yes	☐ No	
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,    Yes    No as specified in the instructions, is attached.						
C.	If portions of the information a confidentiality claim, as de	scribed in the instruction	is, is attached.		☐ No	⊠ N/A	
	SECTI	ON C. MANAGEMI	ar a finite a titud a 1900 a platet til skammat til sakk fill til fölka skildig störmanna försa sakt sakk til sikker sam.	Bahal Berang Addin Addin Seleni Seleni Seleni Seria Alberta Seleni Seleni			
			DISPOSAL FACILITY (IE			200 x 2 x x	
The a	rea below (ad.) will accommo				if necessary	<u> </u>	
a.	Solid waste permit number(s 9-0232-00003	) for processing or dispo	sal facility being util	ized.			
b.	Facility Name	Hyland Landfill					
	Address Line 1	6653 Herdman Road		<u>-</u>			
ĺ	Address Line 1						
	Address City State ZIP	Angelica	NY NY	14709			
	Municipality	Angelica	County	Allegany			
c.	Facility Contact Name Title	Larry Shilling				· ····	
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com		
d.	Volume of waste shipped to 2,852	cuyd 🗌 gal	☐ lb 🖾 ton	(check one)			
a.	Solid waste permit number(s 8-4630-00010	) for processing or dispo	sal facility being util	ized.			
b.	Facility Name	Hakes C&D Landfill					
ŀ	Address Line 1	4376 Manning Ridge	Road				
	Address Line 1						
	Address City State ZIP	Painted Post	NY	14870			
ļ	Municipality	Erwin Twp	County	Steuben			
C.	Facility Contact Name	Joseph Boyles					
	Title	(007) 007 0044		<del> </del>			
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com		
d.	Volume of waste shipped to 1,799	cu yd gal	☐ Ib ⊠ ton	(check one)			
			FICIAL USE				
a.	Has the waste been approved	l for beneficial use?			Yes	⊠ No	
l	If "Voe" liet the general perm	nit number or approval nu	ımber.				
b.	Volume of waste beneficially 0			(check one)			

		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS						
a.		the manufacturing and/or pollution control processes producing	☐ No					
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,							
C.		ion submitted are confidential, the substantiation for Yes No described in the instructions, is attached.	⊠ N/A					
	SEC	TION C. MANAGEMENT OF RESIDUAL WASTE						
		1. PROCESSING OR DISPOSAL FACILITY(IES)						
The ar	rea below (ad.) will accom	modate the identification of two facilities. Attach additional sheets if necessa	ry.					
a.	101243	er(s) for processing or disposal facility being utilized.						
b.	Facility Name	Northern Tier Solid Waste Authority						
	Address Line 1	108 Steam Hollow Road						
	Address Line 1							
	Address City State ZIP	<u>Troy</u> <u>PA</u> 16947						
	Municipality	West Burlington Twp County Bradford						
C.	Facility Contact Name	Charles Woodward						
	Title							
	Phone	(570) 297-4177 Email Address chuckwoodward@epix.net						
d.	1,001	to processing or disposal facility in the previous year.  Cu yd  Gal  Ib  Kon  Check one)						
a.	Solid waste permit numbe 8-0728-00004	er(s) for processing or disposal facility being utilized.						
b.	Facility Name	Chemung County Landfill						
	Address Line 1	1690 Lake Street						
	Address Line 1							
	Address City State ZIP	Elmira NY 14903						
	Municipality	Elmira County Chemung						
C.	Facility Contact Name	Carla Canjar						
	Title	Environmental Manager						
	Phone	(585) 797-5941 Email Address carla.canjar@casella.com						
d.	Volume of waste shipped 883	to processing or disposal facility in the previous year.  □ cu yd □ gal □ lb □ ton (check one)	·					
	•••	2. BENEFICIAL USE	7					
a.	Has the waste been appro		⊠ No					
		ermit number or approval number.						
b.		illy used in the previous year.						
	0	☐ cu yd ☐ gal ☐ lb ☐ ton (check one)						

		PROCESS DESCRIPTION				•	
a.	A detailed description of the r the waste, as specified in the	instructions, is attached	d.	-	⊠ Yes	☐ No	
b.	A schematic of the manufactu as specified in the instruction		ontrol processes pro	oducing the waste,	⊠ Yes	□ No	
C.	If portions of the information a confidentiality claim, as des			on for Yes	☐ No	⊠ N/A	
	SECTIO	ON C. MANAGEM	ENT OF RESID	UAL WASTE			
		1. PROCESSING OR					
The ar	rea below (ad.) will accommod				if necessary	•	
a.	Solid waste permit number(s) 100361	for processing or dispo	osal facility being ut	ilized.			
b.	Facility Name	McKean County Land	dfill				
	Address Line 1	19 Ness Lane					
	Address Line 1	***************************************					
	Address City State ZIP	Kane	PA	16735			
	Municipality	Sergeant Twp	County	McKean	E1 1 II		
C.	Facility Contact Name	Mike Manderfeld					
	Title Phone	(04.4) 770.0004	Facil Address				
	,	(814) 778-9931	Email Address	manderfeld@gm	all.com		
d.	Volume of waste shipped to p 331	rocessing or disposal fa cu yd gal	acility in the previou				
a.	Solid waste permit number(s)	for processing or dispo	osal facility being uti	ilized.			
b.	Facility Name						
	Address Line 1			·			
	Address Line 1						
	Address City State ZIP  Municipality		County				
	<u> </u>		County				
C.	Facility Contact Name Title						
	Phone		Email Address				
d.	Volume of waste shipped to p	cu yd gal	ib [] to				
		One of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of	FICIAL USE				
a.	Has the waste been approved	for beneficial use?			☐ Yes	⊠ No	
	If "Yes", list the general permi						

Date Submitted:
Name of Responsible Official

Dina Brown

Signature

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the Information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify)

Date

**Environmental Specialist** 

LAB ID: 08-00380 LAB ID: 39-00401

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10090956

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10090956

PAGE:

1 of 1

PO#:

AF77049

PWS ID#

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

03-054

RECEIVED FOR LAB BY: DLM2	DATE	: 09/07/2010 16:25			Pa	age 1 of 1
SAMPLE: Inv. Cuttings SAMPLED BY: LS	Samp	Lab ID: 10090956-001A ole Time: 08/30/2010 12:12	Compo	site		
<u>Test</u>	<u>Result</u>	Method	<u>ocoa</u>	Analysis Start	Analysis End	Analyst *
Moisture	12.5 %	K Moisture Calc.	0.01	09/09/10 12:30	09/10/10	SG-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/07/10 17:00	09/07/10	IC-SA
рН	9.30@19.8°C	EPA 9045C		09/10/10 10:00	09/10/10	SG-SA
SAMPLE: Inv. Cuttings		Lab ID: 10090956-001B	Compo	site		
SAMPLED BY: LS	Samp	ole Time: 08/30/2010 12:12	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	89000 mg/Kg	EPA 9071		09/08/10 14:30	09/08/10	
Sample Note: Analysis performed	by Microbac Laboratories,	IncErie Division				
SAMPLE: TCLP Leachate of Inv. Cu	ıttings	Lab ID: 10090956-001D	Compo	site		
SAMPLED BY: LS	Samp	le Time: 09/08/2010 10:00	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/09/10 10:00	09/09/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/09/10 12:45	09/09/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	09/09/10 12:45	09/09/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Sample was received past holding time.

MANIACED	(1) has Deal in	DATE:	0/12/2010
MANAGER	auj M. Oavis	DATE:	9/13/2010

PA ID #: 08-00380 NY ID# 11216

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121731

PAGE:

1 of 3

PO#:

AF77716

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

**TEST REPORT** 

PWS ID#

03-054

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

TRECEIVED FOR ENDER. TIME	<i>D/</i> 11 <i>E</i> .	12/00/2010 10:40			1.0	age 1 of 5
SAMPLE: Inv. Cuttings		Lab ID: 10121731-001A	Grab			
SAMPLED BY: SG	Sample	e Time: 12/08/2010 21:27	61.00			
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	
Sample Note: Analysis performed	by QC Laboratories					
SAMPLE: Inv. Cuttings		Lab ID: 10121731-001C	Grab			
SAMPLED BY: SG	Sample	e Time: 12/08/2010 21:27				
<b>-</b> .	<b></b>		SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	
Cyanide, Reactive	< 0:2 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV
Reactive Sulfide	990 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings		Lab ID: 10121731-001D	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:27	61.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
% Solids	78.73 % Wght.	SM2540B	0.10	12/10/10 17:00		IC-SA
Total Volatile Solids	22.37 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cu	ıttings	Lab ID: 10121731-001F	Grab		***************************************	
SAMPLED BY: SG	_	Time: 12/11/2010 12:45				
_			SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobutadiene	< 0:10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

B Analyte detected in the associated Method Blank

MANAGER	Carri	M. Davis	DATE:	12/16/2010
	~10000			

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: ADDRESS:

Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121731

PAGE:

2 of 3

PO#:

AF77716

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

03-054						
RECEIVED FOR LAB BY: RML	DATE:		age 2 of 3			
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-\$A
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

SAMPLE: TCLP Leachate of Inv. Cuttings

SAMPLED BY: SG

SAMPLED BY: SG

<u>Test</u>

Lab ID: 10121731-001G Sample Time: 09/08/2010 10:00

SLOQ

Grab

Grab

Analysis Start 09/09/10 12:45

Analysis End Analyst* 09/09/10 RMD-CV

Strontium - TCLP extracted 0.056 mg/L **EPA 6010B** 0.050 Sample Note: Sample for TCLP extracted Strontium was received on 9/07/10 at 16:25 by DLM2.

Result

SAMPLE: TCLP Leachate of Inv. Cuttings

Lab ID: 10121731-001H

Lab ID: 10121731-0011

Method

Sample Time: 12/11/2010 12:45

	·	<u>\$</u>	LOQ		
<u>Test</u>	Result	<u>Method</u>	Analysis Start	Analysis End	Analyst *
рН	5.97@16.6°C	SM4500H+B	12/14/10 8:00	12/14/10	SG-SA

SAMPLE:	ZHE	Extract	of Inv.	Cuttings	
		DV. DO			

SAMPLED BY: SG	Sample '	Time: 12/12/2010 13:10				
	•		SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Analyte detected in the associated Method Blank

	/ /	~ ·		
MANAGER	(1)	M. Davis	DATE:	12/16/2010
ARIL AL AL AMERICA	www.	7 9 (5 <u></u> ) 4 7 4		

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121731

PAGE:

3 of 3

PO#:

AF77716

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

03-054							
RECEIVED FOR LAB BY: RML	DA	TE: 12/0	9/2010 15:45			Pa	ige 3 of 3
1,2,4-Trimethylbenzene	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L		EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cutting	ıs '	Lab IC	D: 10121731-001J	Grab			
SAMPLED BY: SG	s	ample Time	e: 12/10/2010 11:15	SLOQ			
<u>Test</u>	Result		<u>Method</u>		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	234 mg/L	В	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cutting	<b>S</b>	Lab I	): 10121731-001L	Grab			
SAMPLED BY: SG	s.	ample Time	e: 12/10/2010 11:15	SLOQ			
Test	Result		Method	<u></u>	Analysis Start	Analysis End	Analyst *

SAMPLE: Inv. Cuttings	Lab ID: 10121731-001M
SAMPLED BY: SG	Sample Time: 12/10/2010 10:25

SLOQ

0.10

Grab

<u>Test</u> Result Total Organic Halides < 5.00 mg/kg

Method SW846/9023

SM4500H+B

SM2540B

**Analysis Start** 5.00 12/15/10 15:45

12/14/10 8:00

12/10/10 17:00

Analysis End Analyst * 12/15/10

SG-SA

IC-SA

12/14/10

12/13/10

Sample Note: Analysis performed by Analytical Services, Inc.

### **REMARKS:**

pΗ **Total Solids** 

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

7.57@16.6°C

1840 mg/L

B Analyte detected in the associated Method Blank

MANAGER	Carrie M. Davis	DATE:	12/16/2010

CHAIN OF CUSTODY					E	Benchn		€ <u>1</u> 0F <u>1</u>	
REPORT TO: Talisman / UEG				25	566 P	E ennsylva <b>VALIOA</b> L			
geowetlands@aol.com	-				700 1	Phot <b>VV/U#</b> :	10121731	E SPECIAL DETECTION LIMITS	
	PEEDVOE	ATE 0.4	14DL EC			Fax. ,		EDED: YES / NO	
	REFRIGER AFTER CO				_		RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH	
					D\ Gi				7
CONTACT Steve Gridley	TRANS	SPORT		,	/ S\ W		LANDFILL Mostoller	YES NO	l
PH# 607-731-0145	T	0		/	Di	DEIGNIZER WATER DI DISTILLER MATE	ER PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREM	AENTS
FAX#	LABOR IN CO		,			/ / H HYDROCHLORIC ACID OH S SULFURIC ACID AS	SODIUM HYDROXIDE ASCORBIC ACID		
BILL TO: Talisman	WITH			/	/ \$ /	/ N NITRIC ACID AC SO₃ SODIUM SULFITE NH,	ACETIC ACID AMMONIUM CHLORIDE		
	<del>                                     </del>	7	-/	/	۶ ۱	Thio SODIUM THIOSULFATE ZN - NONE Hg	ZINC ACETATE MERCURIC CHLORIDE		
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CONTAINER SAMPLING POINT	CATE SAMPLES	SAMO, SAMOLING	SAMPLET	/ 🕉		An incomplete chain of cus processing of your  ANALYSIS TO BE PERFORM (PER CONTAINER)	AMMONIUM CHLORIDE ZINC ACETATE MERCURIC CHLORIDE  tody may delay the sample(s).	Please fill out all applicable areas completely  LAB USE ONLY	
1 Inv Cuttings	12/8 2127	50	c s	T-	10	Ignitability, Reactive Sulfide & C	yanide		
2			С			PCBs, Total Solids			
3 Aefterots, In.			G			Total Volatile Solids			
4 C- Rectivity			С			Ammonia-Nitrogen			
5 D- TS, TVS			С			Water Leaching Procedure: C	OD,		
6 E-T. Sample	111	1	С	1	1	Total Solids, Oil & Grease,			
7 F-TEIP DWA, leads.									
8 G-TCCP-Hass. Sr	<u>/</u>	100	-	H					
9 H-TELP PH	L-	A-5	m -	<b>(</b> 2)	p	36 HOUR TURNAF	ROUND		
10 I - TCLP Vols.	m-	10	(			DAY TURNARO	UND		
11 J- ASTM COD, NOWS									
LAB USE ONLY						ermitture at title			
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103214

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10103214

PAGE:

1 of 2

PO#:

PWS ID#

AF77715

PHONE:

(607) 731-0145

FAX:

(607) 562-4001

**TEST REPORT** 

RECEIVED FOR LAB BY: DLM2	DATE	: 10/21/2010 11:37				
		. 10/21/2010 11:37			Pa	ige 1 of 2
SAMPLE: Air Cuttings		Lab ID: 10103214-001A	Compo	site		
SAMPLED BY: SG	Samp	ole Time: 10/19/2010 9:55	81.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	640 mg/Kg	EPA 9071	170	10/23/10 9:00	10/23/10	
Sample Note: Analysis performed by	Microbac Laboratories	, IncErie Division.				
SAMPLE: Air Cuttings		Lab ID: 10103214-001B	Compo	site		
SAMPLED BY: SG	Samp	le Time: 10/19/2010 9:55				
<u>Test</u>	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	42.9 %	Moisture Calc.	0.01	10/25/10 15:00	10/26/10	NFM-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	10/22/10 15:05	10/22/10	IC-SA
рН	12.01@23.1°C	EPA 9045C	***	10/26/10 8:50	10/26/10	NFM-SA
SAMPLE: Air Cuttings	i	Lab ID: 10103214-001C	Compos	site		
SAMPLED BY: SG	Samp	ie Time: 10/19/2010 9:55				
T4	D4	8.8 m t lm m .d	SLOQ	Ameliaia Ctart	Annhain End	Amalust 8
Test	Result	Method EPA 6010B	214	Analysis Start 10/22/10 10:40	Analysis End 10/22/10	Analyst *
Sodium	391 mg/Kg-dry					RMD-CV
Chloride	590 mg/Kg-dry	EPA 300.0	86.8	10/22/10 15:07	10/23/10	HDP-CV
Percent Moisture	42.9 %	SM2540G		10/25/10 15:00	10/26/10	NFM-SA
SAMPLE: TCLP Leachate of Air Cutting	gs ,	Lab ID: 10103214-001E	Compos	site		
SAMPLED BY: SG	Samp	le Time: 10/22/2010 7:30	81.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	10/23/10 10:20	10/24/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	10/23/10 11:10	10/23/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV

## REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carrie M. Davis	DATE:	10/26/2010

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103214

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc.

Horseheads, NY 14845

337 Daniel Zenker Dr

WO#:

10103214

PAGE:

2 of 2

PO#:

AF77715

PWS ID#

PHONE: FAX:

(607) 731-0145 (607) 562-4001

**TEST REPORT** 

03-054 RECEIVED FOR LAB BY: DLM2	DATE: 1	10/21/2010 11:37			P	age 2 of 2
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Nickel - TCLP extracted	< 0:100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	10/23/10 11:10	10/23/10	RMD-CV

## **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Cana	M. Davis	DATE:	10/26/2010

CHAIN OF CUSTODY	1				,	1	Benchmai							-	OF_	_1
REPORT TO: Talisman / UEG	,				2	566 F	Easi Pennsylvania		W/O	ж.	10	103	214	L _		
geowetlands@aol.com	ļ						Phone:	(57)	_	<i>,</i> 11.	10	100	' <b>_</b> !¬	-	ECTION LI	IMITS
twollin@rallysolutions.ca	   _{REE}	RIGER	ATE S	A MADLE	2		rax: (a	570) ชชช-บกา	. 1					NEEDED: LIYES		Ī
twomines any delations.ou			LLECT			<i>[</i> 2	W DRINKING W	ATED OF (	SLUDGE			BEING USE NYDEC	D FOR: 	IFYES, PLEASE		
						/ G	W GROUND WA	TER SO S	SOIL	NYDOI	н.	MYDEC	PADEP	1	ACKAGE NEI	EDED?
CONTACT Steve Gridley		TRANS	SPORT	i	:	/ w	W SURFACE WATE WWW WASTE WATE	R OTHER	HAZARDOUS	la		ANDFILL_			MO	ĺ
PH# 607-731-0145	┨.	•	0			D	E DEIONIZED	· · · · · · · · · · · · · · · · · · ·	DISTILLED WATER	<del></del> -				IFYES, PLEASE	TACH RED	IUIREMENTS
FAX#	1	ABOH IN CO	ATOR\ OLER	ſ	/		H S	HYDROCHLORIC SULFURIC ACID		SODIUM H ASCORBIC		DE				
BILL TO: Talisman	1	WITH		,	/		/ / N so 1	NITRIC ACID SODIUM SULFITE		ACETIC AC		RIDE	/			
	├──	7	7	/	$\parallel /$	%/ %/	Thlo	SODIUM THIOSUI	lfatë zn z	ZINC ACET	TATE	NDE	/.		į	
PO# AF 777/5	4		1	·/_	1/8	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	3/, / <del>-</del>		<del></del>	MERCURK		NIDE	/ & ×	\$	Please IIII ou	ut all
PROJECT/DESCRIPTION 3 054	] ,				/ wi				chain of custo ssing of your s			10	/@/	\$ / S	pplicable a completel	
SAMPLES SIGNATURE / AFFILIATION	$\mid Z$	\$ /	g / z	$\mathcal{F}/\mathcal{E}$	4/	3/	<i>\$</i> /			i		/		<b>F</b>	Complete	'7
CONTAINER SAMPLING POINT	/\{\text{\text{\$\frac{1}{2}}}	That	SAME OF SAMPLING	SAME MATERIAL	/ 3	Per MITHER COMPOSES	J. W. W. W. W. W. W. W. W. W. W. W. W. W.		D BE PERFORMI CONTAINER)	ED		/ 8	PRESCHIED ON PERSON	LAB L	SE ONLY	<b>′</b>
1 Air Cuttings	10/19	955	50	C	5%	-12	TPH					· · · · · · · · · · · · · · · · · · ·			6	COLAIL
2							pH, Chlor	ides, Sodiu	ım	•						
3							TCLP 8 F	RCRA Meta	ılş + Cu, N	li, Zrĺ						
4 A.TPH			Ī .				Free Liqu	ids / % Mo	isture	,		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
5 B. pH, Free Liqui	10	70 M	pist	in			BTE	<								7.86
6 C-CINARM	کاما	†						<b>107</b> 0 C	ONLY IF th	e TPF	1			幸 还装		144
7 D. T. Sample							ехсее	ds 1 <b>2</b> 0,000	mg/Kg	-		(1) A (1) (2) A (2)	7 (200 mg) 2 (200 mg) 4 (200 mg)			
8															130-19	
9							7:	HOUR	TURNAR	OUN	5		- Table 1		湖台灣	1971
10								DAY T	URNARO	UND						<b>SV</b>
11														Que	10/26	10
LAB USE ONLY					1.		SG						Y 47 - 1			- E
DELIVERED BY	<u>1:</u>			-	<del>-  </del>	<u> </u>	<u> ၁၆</u>	TE	MPERATUR	KE UPO	N:REC	活[1]		℃ ARR	YAL ON	CE Y IN
RELINGUISHED BY:			DATE:	21/		TIME:	1137	RECEIVED BY:	<u> </u>	<u>```````</u>				DATE:	TIME	E;
RELINQUISHED BY:		_	DATE:	. 117	<del></del>	TIME:	· / /	RECEIVED BY:						DATE:	TIME	 E:
RELINQUISHED BY:		1	DATE:		+ 1	TIME:	· · · · · · · · · · · · · · · · · · ·	RECEIVED BY:		00			<del></del>	DATE:	TIME	E:
			1		$\perp \perp$		<u></u>		12000	للترا	<u> </u>			DATE: Lat /	Ad Granblea Pr	E: 11.3.7 Printing 570-888-0685
					į					)					- Compress	



### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.			y Date Receive	<b>USE{ONLY</b> ed & General Notes	
Gener	al Refe	rence 287.54				
Date F	repare		ruary 11, 2011			
			CLIENT (GENERATOR	R OF THE WASTE) INF	FORMATION	
	any Nar					
		ergy USA Inc. y, Name of Parent Comp	anv		FPΔ	Generator ID#
		ergy Inc.	uny		N/A	Concrator ID#
Comp	any Mai	ling Address Line 1	C	ompany Mailing Address	Line 2	
	nnwood			7		P4
Warre	-	Iress Last Line – City	<b>State</b> PA	<b>Zip+4</b> 15086	Phone (724) 814-530	Ext
		ntact Last Name	First Name	MI	(724) 014-330 Suffi	
Brown	•		Dina			
Munic				County		
Warre		- Ft		Allegheny		
	ct Phon 814-53		Contact Email Address dybrown@talismanusa.c	nm		
			y Mailing Address (noted	above)?		Yes No
		be location of waste gen	eration and storage. Drill o	cuttings are generated duri		
the L			cated at 847 Fairbanks Road	d, Columbia Township, Bra	adford County, PA.	Waste is stored in
Munic	ners on s ipality	Columbia	County Bradfo	ord	State	PA
				EDESCRIPTION		
Resi	dual	Residu	ıal Waste		Unit of	Time
Waste	Code	Code D	escription	Amount	Measure	Frame
810		Drill cuttings (oil and g	as)	5,256	_cu_ydgal ]lb ⊠ ton	One Time
			1. GENERAL P	ROPERTIES	<u>⊿</u>	<u>                                     </u>
a.	pH Ra			(based on analyses or kno	wledge)	
b.	Physic	cal State	☐ Liquid Waste (EPA Me ☐ Solid (EPA Method 90) ☐ Gas (ambient tempera	95)		
C.	Physic	cal Appearance	Color Greyish Black		Earthy / Slight	Petroleum
			Number of Solid or Liquid	-	One	
			Describe each phase of s	eparation. <u>Soil and Roc</u> l	k Fragments	
÷.=			2. CHEMICAL ANALYS	SIS ATTACHMENTS		
a.			ical characterization of the		he 🖂	Yes No
<u> </u>		ctions, is attached.	aste sampling method is a	ottachad	<u> </u>	Yes No
b. c.			control procedures employ		) is	Yes No
J.	attach			,	, Z	
<u></u>						
d.			aste determination is atta- ation supporting use of ge			Yes No

. 4		3. PROCESS DESCRIPTION							
a.	A detailed description of the waste, as specified in			esses producing	⊠ Yes	☐ No			
b.	A schematic of the manufacturing and/or pollution control processes producing the waste,   No as specified in the instructions, is attached.								
C.	If portions of the informat a confidentiality claim, as	described in the instruction	ons, is attached.		☐ No	⊠ N/A			
	SEC	TION C. MANAGEN							
			R DISPOSAL FACILITY(I						
The ar	ea below (ad.) will accom				if necessary	<b>'.</b>			
a.	Solid waste permit numbe 9-0232-00003	er(s) for processing or disp	oosal facility being uti	lized.					
b.	Facility Name	Hyland Landfill							
	Address Line 1	6653 Herdman Roa	d						
	Address Line 1								
	Address City State ZIP	Angelica	NY	14709					
	Municipality	Angelica	County	Allegany					
C.	Facility Contact Name	Larry Shilling							
	Title								
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com				
d.	Volume of waste shipped 2,795	cu yd gal	☐ lb 🛛 to	n (check one)	1				
a.	Solid waste permit numbe 100361	r(s) for processing or disp	oosal facility being uti	lized.					
b.	Facility Name	McKean County Lar	ndfill						
	Address Line 1	19 Ness Lane							
	Address Line 1								
	Address City State ZIP	Kane	PA PA	16735					
	Municipality	Sergeant Twp	County	McKean					
c.	Facility Contact Name	Mike Manderfeld							
	Title								
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com				
d.	Volume of waste shipped to 1,342	cu yd gal	☐ lb 🛛 tor						
			IEFICIAL USE						
a.	Has the waste been appro-				Yes	⊠ No			
	If "Yes", list the general pe					<del></del>			
b.	Volume of waste beneficia	lly used in the previous ve	ear.						
	0	cu yd gal	☐ lb ☐ tor	n (check one)					

8		PROCESS DESCRIPTION &				
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No
b.	A schematic of the manufact as specified in the instructio		ntrol processes proc	lucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as de			n for Yes	No	⊠ N/A
	SECTI	ON C. MANAGEME	NT OF RESIDU	AL WASTE		
		1. PROCESSING OR D				
The ar	ea below (ad.) will accommo	late the identification of t	wo facilities. Attach	additional sheets	if necessary	
a.	Solid waste permit number(s 8-4630-00010	for processing or dispos	sal facility being utili	ized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge F	Road			
	Address Line 1					
	Address City State ZIP	Painted Post	NY	14870		
	Municipality	Erwin Twp	County	Steuben		
C.	Facility Contact Name	Joe Boyles				
	Title	(007) 007 0044		<del> </del>		
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com	
d.	Volume of waste shipped to		cility in the previous	vear.		
	1,031	cu yd 🔲 gal	☐ lb      ⊠ ton	•		
a.	Solid waste permit number(s 100945	for processing or dispos	sal facility being utili	zed.		
b.	Facility Name	Cumberland County La	andfill			
	Address Line 1	135 Vaughn Road				
	Address Line 1					
	Address City State ZIP	Newburg	PA	17240		
	Municipality	Newburg Boro	County	Cumberland		
c.	Facility Contact Name	Dusty Hilbert		·		
	Title	Compliance Manager				
	Phone	(717) 729-5261	Email Address	dhilbert@iswaste	.com	
d.	Volume of waste shipped to p	rocessing or disposal fac cu yd gal	cility in the previous			
			ICIAL USE			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially 0	used in the previous year cu yd gal	·. lb	(check one)		

## SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year __ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year _____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title **Environmental Specialist** Dina Brown Date

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121731

PAGE:

1 of 3

PO#:

AF77716

PHONE:

(607) 562-4000

FAX:

(607) 562-4000

**TEST REPORT** 

PWS ID#

03-054

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

RECEIVED FOR LAB ST. RML	DATE.	12/09/2010 15.45			P	age 1 01 5
SAMPLE: Inv. Cuttings		Lab ID: 10121731-001A	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:27	61.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	
Sample Note: Analysis performed	by QC Laboratories					
SAMPLE: Inv. Cuttings		_ab ID: 10121731-001C	Grab		**************************************	
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:27				
<b>-</b> .	<b></b>	B.B. at B	SLOQ	Annahada Oran		A l
Test	Result	Method		Analysis Start	Analysis End	
Cyanide, Reactive	< 0:2 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV
Reactive Sulfide	990 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings		ab ID: 10121731-001D	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:27				
			<u>\$LOQ</u>			
Test	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
% Solids	78.73 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	22.37 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttings	_ab ID: 10121731-001F	Grab			
SAMPLED BY: SG	Sample	Time: 12/11/2010 12:45				
Took	Popult	Method	SLOQ	Analysis Start	Analysis End	Annhot *
<u>Test</u> Pyridine	Result < 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
•	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
1,4-Dichlorobenzene	•	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L					
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobutadiene	< 0:10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
2.4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

## REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank

MANAGER	Carrie M. Davis	DATE:	12/16/2010
INIT ALL AND THE INIT	Canar VI. E July III		

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121731

PAGE:

2 of 3

PO#:

AF77716

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

AX: (607) 562-4001	į					
03-054						
ECEIVED FOR LAB BY: RML	DATE:	12/09/2010 15:45			Pa	age 2 of
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-S
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-S
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-S
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-S
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-S
AMPLE: TCLP Leachate of Inv. Cuttin	gs	Lab ID: 10121731-001G	Grab			
SAMPLED BY: SG	Sampl	e Time: 09/08/2010 10:00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
Strontium - TCLP extracted	0.056 mg/L	EPA 6010B	0.050	09/09/10 12:45	09/09/10	RMD-C
Sample Note: Sample for TCLP extract	•				00.001.00	runo-c
AMPLE: TCLP Leachate of Inv. Cuttin	as	Lab ID: 10121731-001H	Grab			
SAMPLED BY: SG	9-	e Time: 12/11/2010 12:45	4.4-			
3/ <b>I</b> III	•		SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analys
рН	5.97@16.6°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-S/
AMPLE: ZHE Extract of Inv. Cuttings		Lab ID: 10121731-0011	Grab			
SAMPLED BY: SG	Sample	e Time: 12/12/2010 13:10				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analysis
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11		CTM-S
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
	•		0.0250	12/13/10 8:11	12/13/10	CTM-S
Tatrachlomethene	< 0.0250 ma/l	PPA X7KIK				
Tetrachloroethene Trichloroethene	< 0.0250 mg/L < 0.0250 mg/L	EPA 8260B EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S

## REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank

MANIACED	Company Tawais	DATF.	12/16/2010
MANAGER	Carrie M. Davis	DATE:	12/10/2010

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121731

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

PHONE:

FAX:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

(607) 562-4001

Horseheads, NY 14845

WO#:

10121731

PAGE:

3 of 3

PO#:

AF77716

(607) 562-4000

**TEST REPORT** 

PWS ID#

03-054							
RECEIVED FOR LAB BY: RML	DAT	ΓΕ: 12/0	09/2010 15:45			Pa	ige 3 of 3
1,2,4-Trimethylbenzene	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L		EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L		EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cuttin	ngs ·	Lab II	D: 10121731-001J	Grab			
SAMPLED BY: SG	Sa	mple Time	9: 12/10/2010 11:15	SLOQ			
Test	Result		<u>Method</u>		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	234 mg/L	В	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cuttin	ngs	Lab II	D: 10121731-001L	Grab			
SAMPLED BY: SG	Sa	mple Time	e: 12/10/2010 11:15	SLOQ			
<u>Test</u>	Result		<u>Method</u>		Analysis Start	Analysis End	Analyst *
рН	7.57@16.6°C		SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1840 mg/L		SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings		Lab IC	D: 10121731-001M	Grab			
SAMPLED BY: SG	. Sa	mple Time	: 12/10/2010 10:25				
Toet	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
<u>Test</u> Total Organic Halides	< 5.00 mg/kg		SW846/9023	5.00	12/15/10 15:45	12/15/10	- Trainst
Sample Note: Analysis performed b		Inç.	CHUTOIOCC	0,00	14:10:10 10:70	12/10/10	

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank

	/ /		
MANAGER	Carrie M. Davis	DATE:	12/16/2010
1417 (1 47 10-11)	and M. Ditt		

CHAIN OF CUSTODY	Benchπ	€ 1 OF 1
REPORT TO: Talisman / UEG	E 2566 Pennsylva <b>NALIOH</b> 4.04.04.704	
geowetlands@aol.com	Phoi <b>VV/U#:</b> 10121/31	E SPECIAL DETECTION LIMITS
goonom	Fa).	EDED: TYES / NO
	REFRIGERATE SAMPLES  AFTER COLLECTION  RESULTS ARE BEING USED FOR:  IF	YES, PLEASE ATTACH
	OW DRINKING WALER SL SLUDGE NYDOH NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller TRANSPORT WW WASTE WATER OTHER	YES NO
PH# 607-731-0145	TO DE DEIONIZED WATER DI DISTILLED MATER DEPONIAL OTUCO	YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY  / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE IN COOLER  / S SULFURIC ACID AS ASCORBIC ACID	
BILL TO: Talisman	WITH ICE    N NITRIC ACID   AC ACETIC ACID	
	SO ₃ SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE	\ \delta \
PO# AF 777/6	NONE Hg MERCURIC CHLORIDE / 4/5	Please fill out all
PROJECT DESCRIPTION 3-054	An incomplete chain of custody may delay the S S P P P P P P P P P P P P P P P P P	applicable areas
SAMPLER SIGNATURE / AFFILIATION		/ completely
CONTAINER SAMPLING POINT	LABORATORY IN COOLER WITH ICE  H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID SO_3 SODIUM SULFITE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE - NONE Hg MERCURIC CHLORIDE  An Incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely  LAB USE ONLY
1 Inv Cuttings	12/8 2127 50 C S6- 10 Ignitability, Reactive Sulfide & Cyanide	
2	C PCBs, Total Solids	
3 Aefters, In.	Total Volatile Solids	
4 C- fractisity	C Ammonia-Nitrogen	
5 D- 75, 7VS	C Water Leaching Procedure: COD,	
6 E-T. Sample	V V C V V Total Solids, Oil & Grease,	
7 F-Teil BNA, leads.		
8 G-TEEP-HOSS. Sr	K-ASHO GYE	
9 H-TELP PH	L-ASTM TS OH 36 HOUR TURNAROUND	
10 I - TCLP Vols.	M-TOX DAY TURNAROUND	
11 J- ASTO COD, ASHS		
LAB USE ONLY		
1951/19750(3)		s varawilonnee van
RELINQUISHED BY:		DATE: TIME:
RELINQUISHED BY:	DATE: TIME: RECEIVED BY:	ATE: TIME:
(		1 1
RELINQUISHED BY:	DATE: , TIME: RECEIVED BY 00	\$ 19/10 19545
		Ad Graphics Printing 570-888-0685

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103214

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10103214

PAGE:

PWS ID#

1 of 2

PO#:

AF77715

**TEST REPORT** 

PHONE: FAX:

(607) 731-0145

(607) 562-4001 03-054

-	Sample Result 0 mg/Kg ac Laboratories, I	Lab ID: 10103214-001A Time: 10/19/2010 9:55 <u>Method</u> EPA 9071 IncErie Division.	Compo SLOQ 170	Analysis Start	Analysis End	A
Test E Total Petroleum Hydrocarbons 64 Sample Note: Analysis performed by Microb	<u>Result</u> 0 mg/Kg ac Laboratories, I	<u>Method</u> EPA 9071			Analysis End	A
Total Petroleum Hydrocarbons 64 Sample Note: Analysis performed by Microb	0 mg/Kg ac Laboratories, I	EPA 9071			Analysis End	A
Sample Note: Analysis performed by Microb	ac Laboratories, I		170			<u> Anaiyst "</u>
		ncErie Division.		10/23/10 9:00	10/23/10	
SAMPLE: Air Cuttings						
	ı	_ab ID: 10103214-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 10/19/2010 9:55	SLOQ			
<u>Test</u> <u>F</u>	lesult	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	12.9 %	Moisture Calc.	0.01	10/25/10 15:00	10/26/10	NFM-SA
Free Liquid	0.1 %	EPA 9095A	0.1	10/22/10 15:05	10/22/10	IC-SA
pH 12.0°	I@23.1°C	EPA 9045C		10/26/10 8:50	10/26/10	NFM-SA
SAMPLE: Air Cuttings	·	_ab ID: 10103214-001C	Compos	site		
SAMPLED BY: SG	Sample	Time: 10/19/2010 9:55	SLOQ			
<u>Test</u> <u>F</u>	<u>lesult</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Sodium 391	mg/Kg-dry	EPA 6010B	214	10/22/10 10:40	10/22/10	RMD-CV
Chloride 590	mg/Kg-dry	EPA 300.0	86.8	10/22/10 15:07	10/23/10	HDP-CV
Percent Moisture	12.9 %	SM2540G		10/25/10 15:00	10/26/10	NFM-SA
SAMPLE: TCLP Leachate of Air Cuttings		ab ID: 10103214-001E	Compo	site		
SAMPLED BY: SG	Sample	Time: 10/22/2010 7:30	SLOQ			
<u>Test</u>	<u>lesult</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted < 0.0	008 mg/L	EPA 7470A	8000.0	10/23/10 10:20	10/24/10	RMD-CV
Arsenic - TCLP extracted < 0.	500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Barium - TCLP extracted < 10	).00 mg/L	EPA 6010B	10.00	10/23/10 11:10	10/23/10	RMD-CV
Cadmium - TCLP extracted < 0.	100 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV
Chromium - TCLP extracted < 0.	500 mg/L	EPA 6010B	0.500	10/23/10 11:10	10/23/10	RMD-CV
Copper - TCLP extracted < 0.	<b>1</b> 00 mg/L	EPA 6010B	0.100	10/23/10 11:10	10/23/10	RMD-CV

## REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carri	M. Davisi	DATE	: 10/26/2010	

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10103214

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: ADDRESS:

Talisman Energy USA, Inc.

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10103214

PAGE:

2 of 2

PO#:

AF77715

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

03-054 RECEIVED FOR LAB BY: DLM2 DATE: 10/21/2010 11:37 Page 2 of 2 Lead - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 10/23/10 11:10 10/23/10 RMD-CV Nickel - TCLP extracted < 0:100 mg/L 0.100 10/23/10 11:10 **EPA 6010B** 10/23/10 RMD-CV Selenium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 10/23/10 11:10 10/23/10 RMD-CV Silver - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 10/23/10 11:10 10/23/10 RMD-CV Zinc - TCLP extracted < 0.200 mg/L **EPA 6010B** 0.200 10/23/10 11:10 10/23/10 RMD-CV

**TEST REPORT** 

## REMARKS:

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carrie M. Darkis	DATE:	10/26/2010
· · · · · · · · · · · · · · · · · · ·			

CHAIN OF CUSTODY						E	enchmark /			OF1
REPORT TO: Talisman / UEG	,				2!	566 P	Eastern ennsylvania Ave W/O#: 101	0324	4	
geowetlands@aol.com						,	Phone: (57)	002 1	NEEDED:	TECTION LIMITS
twollin@rallysolutions.ca	REF	RIGER	RATE S	AMPL	ES		Fax: (570) 000-0717	G USED FOR:	IF YES, PLEASE	
	AFTI	er co	LLECT	ION	:	/DV	DRINKING WATER SI. SLUDGE NYDOH NYD			ACKAGE NEEDED?
CONTACT Steve Gridley				_		/ GI	V GROUND WATER SO SOIL V SURFACE WATER HZ HAZARDOUS LAND			₹ZNO
PH# 607-731-0145			SPORT O		1	/ W <u>Di</u>	DEIGNIZED MATER DI DISTILLED MATER DEDOGNAL OTHE		IFYES, PLEASE	TACH REQUIREMENTS
FAX#			IATOR' OLER	Y			H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID			
BILL TO: Talisman		WITH					N NITRIG ACID AC ACETIC ACID SO SODIUM SULFITE NH, AMMONIUM CHLORIDE			
PO# AF 77715	-	7	7.			\$ / g	ThIO SODIUM THIOSULFATE ZN ZINC ACETATE  - NONE Hg MERCURIC CHLORIDE			
PROJECT/DESCRIPTION 03 054				?  }	1	M	An incomplete chain of custody may delay the	<b>,</b>		ease fill out all
SAMPLER SIGNATURE / AFFILIATION				F. E.	13/	\$	processing of your sample(s).			completely
CONTAINER SAMPLING POINT	1	That SAMPLES	SAMPLING SAMPLING	SA. MATRIX	St. Pre. G.		An incomplete chain of custody may delay the processing of your sample(s).  ANALYSIS TO BE PERFORMED (PER CONTAINER)	Composition of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	LAB I	SE ONLY
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3					<u>                                     </u>		TCLP 8 RCRA Metals + Cu, Ni, Zri			
A TPH		<u>L</u> .,	<del>                                     </del>		_	ļ	Free Liquids / % Moisture			
5 B. pH tree liqui	1	1	oist	me	<u> </u>	ļ	BTEX	l blog		
6 C. CINA, RM	کان	‡	<u> </u>	-	#_	-	TC-LE-2307 NLY IF the TPH			
7 D. T. Sample		<u> </u>	-	-	#		exceeds 120,000 mg/Kg		· 海、建二等	
8			1	-	11.		7.) HOUR TURNAROUND			
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11	╁	<del>                                     </del>	1	-	#	<del> </del>			Que	101216160
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										Ad Graphica Printing 570-688-0686
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10090956

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#:

10090956

PAGE:

1 of 1

PO#:

AF77049

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

03-054

RECEIVED FOR LAB BY: DLM2	DAT	E: 09/0	7/2010 16:25			Pa	age 1 of 1
SAMPLE: Inv. Cuttings		Lab ID:	10090956-001A	Compo	site		
SAMPLED BY: LS	Sar	mple Time:	08/30/2010 12:12	SLOQ			
Test	Result		Method	<u>SLUQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	12.5 %	к	Moisture Calc.	0.01	09/09/10 12:30	09/10/10	SG-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	09/07/10 17:00	09/07/10	IC-SA
рН	9.30@19.8°C		EPA 9045C		09/10/10 10:00	09/10/10	SG-SA
SAMPLE: Inv. Cuttings		Lab ID:	10090956-001B	Compo	site		
SAMPLED BY: LS	Sar	mple Time:	08/30/2010 12:12				
Test	Result		Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyet *
Total Petroleum Hydrocarbons	89000 mg/Kg		EPA 9071		09/08/10 14:30	09/08/10	Allalyst
Sample Note: Analysis performed	0 0	es, IncEri			00,00,10 1110	00,00,10	
SAMPLE: TCLP Leachate of Inv. Cu	ıttings	Lab ID:	10090956-001D	Compo	site		
SAMPLED BY: LS	_	mple Time:	09/08/2010 10:00				
T4	D		Made and	<u>SLOQ</u>	A t t Ott	Analosia Fast	A + +
Test	<u>Result</u> < 0.0008 mg/L		Method EPA 7470A	0.0008	Analysis Start 09/09/10 10:00	Analysis End 09/09/10	Analyst *
Mercury - TCLP extracted  Arsenic - TCLP extracted	< 0.500 mg/L		EPA 7470A EPA 6010B	0.500	09/09/10 10:00	09/09/10	KW-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	09/09/10 12:45	09/09/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
<del></del>	· ·		EPA 6010B	0.100	09/09/10 12:45	09/09/10	
Copper - TCLP extracted	< 0.100 mg/L						RMD-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	09/09/10 12:45	09/09/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	09/09/10 12:45	09/09/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	09/09/10 12:45	09/09/10	RMD-CV

### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA
- Sample was received past holding time.

MANAGER	Carri	M. Davis	DATE:	9/13/2010



# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legib attache	oly printed in the space d sheet as Form 26R	rately completed. All requing provided. If additional sp., reference the item numbets needs to match the date	ace is necessary, ide er and identify the	ntify 🗀		DEP US eceived		ral Notes
Gener	al Refe	rence 287.54							
Date P	repared	d/Revised Fe	ebruary 11, 2011						
		SECTION A.	CLIENT (GENERATOR	ROF THE WASTE) I	NFOR	MATIO	ЙC		
Compa	any Nar	ne							
		ergy USA Inc.							
	-	y, Name of Parent Com	pany				EPA Ge N/A	enerato	or ID#
		ergy Inc. Iling Address Line 1	C	ompany Mailing Addr	ess I ind		IN/A		
		d Place	•	ompany maming , wan	occ Emi	-			
Compa	any Add	dress Last Line – City	State	Zip+4		hone			Ext
Warre			PA PA	15086	(	724) 814			
	•	ntact Last Name	First Name Dina	MI		;	Suffix		
Brown Munici				County		_			
Warre				Allegheny					
Contac	t Phon		Contact Email Address						
(724) 8	814-53	21	dybrown@talismanusa.c						
			ny Mailing Address (noted a					es	⊠ No
the			eneration and storage. <u>Drill o</u> d at 1042 Antler Road, Columb						
11.1	ers on s		d at 1042 Antiel Road, Column	ola Township, Bradioid	County	1 A. VVC	3310 13 3	toreu ii	1
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Munici		Columbia	County Bradfo			State		PA	
			County Bradfo		I	State		PA	
Munici Resi	pality dual	Columbia Resid	SECTION B. WAST	E DESCRIPTION		Unit of		7	Γime
Munici	pality dual	Columbia Resid	SECTION B. WAST dual Waste Description		N	Unit of leasure		7	Γime rame
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Munici Resi Waste	pality dual	Columbia  Resid Code  Drill Cuttings (Oil and	SECTION B. WAST dual Waste Description d Gas)  1. GENERAL P 51 to	Amount 458 ROPERTIES (based on analyses or	cu y	Unit of leasure yd 🔲	gal	T F	rame
Resi Waste 810	dual Code pH Ra	Columbia  Resid Code  Drill Cuttings (Oil and	SECTION B. WAST dual Waste Description d Gas) 1. GENERAL P	Amount 458 ROPERTIES (based on analyses or thod 9095) 95)	cu y	Unit of leasure yd 🔲	gal	T F	rame
Resi Waste 810	dual Code pH Ra Physic	Columbia  Resid Code  Drill Cuttings (Oil and	SECTION B. WAST dual Waste Description d Gas)  1. GENERAL P 51 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black	Amount  458  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Od	cu y lb knowled	Unit of leasure yd 🔲	gal ton	1 F	rame Ine Time
Resignate 810	dual Code pH Ra Physic	Columbia  Resid Code  Drill Cuttings (Oil and  nge 6. cal State	SECTION B. WAST dual Waste Description  d Gas)  1. GENERAL P 51 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid	Amount  458  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd I Phases of Separatio	knowled	Unit of leasure yd Selge)	gal ton Slight P	1 F	rame Ine Time
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Resi Waste 810	pality dual Code  pH Ra Physic  Physic	Columbia  Resid Code  Drill Cuttings (Oil and nge 6. cal State  cal Appearance  sults of a detailed cheretions, is attached.	SECTION B. WAST dual Waste Description d Gas)  1. GENERAL P 51 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount  458  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R	N cu b lb knowled	Unit of leasure yd Selge)	gal ton Slight P	T F	rame one Time um
Residuate 810  a. b.	pality dual Code  pH Ra Physic  Physic  The re instruct A deta	Columbia  Resid Code  Drill Cuttings (Oil and nge 6. cal State  cal Appearance  sults of a detailed cheretions, is attached. iiled description of the pality assurance/quality	SECTION B. WAST dual Waste Description d Gas)  1. GENERAL P 51 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS mical characterization of the	Amount  458  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separatio eparation. Soil and R SIS ATTACHMENTS waste, as described attached.	or En Cock Fra	Unit of leasure yd Selge)	gal ton Slight P	F O	um No
Residuate 810  a. b.	pH Ra Physic  The re instruc A deta The qu attach The re	Columbia  Resid Code  Drill Cuttings (Oil and  nge 6. cal State  cal Appearance  sults of a detailed cheretions, is attached. illed description of the pality assurance/quality ed. sults of the hazardous	SECTION B. WAST dual Waste Description d Gas)  1. GENERAL P 51 to Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient temperate Color Greyish Black Number of Solid or Liquid Describe each phase of s  2. CHEMICAL ANALYS mical characterization of the waste sampling method is a	Amount  458  ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and Resident and	N   Cu   Ib   Ib   Ib   Ib   Ib   Ib   Ib   I	Unit of leasure yd Selge)	gal ton Slight P	F O O	um No

75,844,000,000,000,000,000,000,000,000,000		PROCESS DESCRIPTION				ingal size
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufact as specified in the instruction		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as de			n for Yes	☐ No	⊠ N/A
	SECTI	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(IE		2740.0077	
The ar	ea below (ad.) will accommo	date the identification of	two facilities. Attach	n additional sheets i	if necessary	<b>.</b>
a.	Solid waste permit number(s 100361	) for processing or disp	osal facility being util	lized.		
b.	Facility Name	McKean County Land	llit			
	Address Line 1	19 Ness Lane			1	
	Address Line 1	17.		40705		******
	Address City State ZIP Municipality	Kane Sergeant Twp	PA County	16735 McKean		
	Facility Contact Name	· · · · · · · · · · · · · · · · · · ·	County	McKean		
C.	Title	Mike Manderfeld				
	Phone	(814) 778-9931	Email Address	manderfeld@gma	ail com	
d.	Volume of waste shipped to		****			
u.						
	264	cuyd gal	☐ lb      tom	(check one)		
a.		cuyd gal	☐ lb      tom	(check one)		
a. b.	264 Solid waste permit number(s	cu yd gal for processing or dispo	☐ lb      tom	(check one)		
	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1	cuyd gal	☐ lb      tom	(check one)		
	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1	cu yd gal for processing or dispo	□ lb ⊠ ton	ized.		
	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica	□ lb ⊠ ton psal facility being util  NY	ized. (check one)		
b.	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica Angelica	□ lb ⊠ ton	ized.		
	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica	□ lb ⊠ ton psal facility being util  NY	ized. (check one)		
b.	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cu yd gal ) for processing or dispo  Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling	□ lb ⊠ ton psal facility being util  NY	ized.  14709 Allegany		
b.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	cu yd gal ) for processing or dispo  Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271	NY County  Email Address	ized.  14709 Allegany  larry.shilling@cas		
b.	Solid waste permit number(s 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	cu yd gal ) for processing or dispo  Hyland Landfill 6653 Herdman Road  Angelica Angelica Larry Shilling (585) 466-7271	NY County  Email Address	14709 Allegany larry.shilling@cas		
b.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	Cu yd gal Cu yd gal Cu yd gal Cu yd gal Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Control Contro	NY County  Email Address acility in the previous	14709 Allegany larry.shilling@cas		
b.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 105	cu yd gal cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 processing or disposal for cu yd gal	NY County  Email Address acility in the previous	14709 Allegany larry.shilling@cas	sella.com	⊠ No
b. c.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 105  Has the waste been approved	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 processing or disposal for u yd gal gal for beneficial use?	NY County  Email Address acility in the previous Ib Ib Iton	14709 Allegany larry.shilling@cas		No
b. c.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 105	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 processing or disposal for u yd gal a for beneficial use? it number or approval n	NY County  Email Address acility in the previous Ib Ston	14709 Allegany larry.shilling@cas	sella.com	⊠ No
b. c. d.	Solid waste permit number(s 9-0232-00003  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 105  Has the waste been approved If "Yes", list the general perm	cu yd gal for processing or dispo Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 processing or disposal for u yd gal a for beneficial use? it number or approval n	NY County  Email Address acility in the previous Ib Ston	14709 Allegany larry.shilling@cass year.	sella.com	No No

		PROCESS DESCRIPTION				
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufact as specified in the instruction		entrol processes proc	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEM	ENT OF RESIDU	IAL WASTE		
20 to 100	-		DISPOSAL FACILITY(IE			1000
The ar	ea below (ad.) will accommod	late the identification of	two facilities. Attach	additional sheets	f necessary	1.
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispo	sal facility being util	ized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	Road			
	Address Line 1					
	Address City State ZIP	Painted Post	NY NY	14870	_	
	Municipality	Erwin Twp	County	Steuben		
C.	Facility Contact Name	Joe Boyles		***********		
	Title					
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com 	
d.	Volume of waste shipped to p	rocessing or disposal fa cu yd gal	acility in the previous	•		
a.	Solid waste permit number(s) 100945	for processing or dispo	sal facility being util	ized.	-	
b.	Facility Name	Cumberland County L	andfill		<del></del>	
	Address Line 1	135 Vaughn Road				
	Address Line 1					
	Address City State ZIP	Newburg	PA	17240		
	Municipality	Newburg Boro	County	Cumberland		
C.	Facility Contact Name	Dusty Hilbert				<del></del> -
	Title	Compliance Manager				
	Phone	(717) 729-5261	Email Address	dhilbert@iswaste	.com	
d.	Volume of waste shipped to p	cu yd 📗 gal	☐ lb     ton		•	
			FICIAL USE			
a.	Has the waste been approved				☐ Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially 0	u <b>sed in the previous ye</b> a cu yd gal	ı <b>r.</b>	(check one)		
	<del></del>					

SECTION D. CERTIFICATION							
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.							
Check the following, if applicable:							
I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed.							
For	m Submitted:		Form 26R				
			Other (specify)				
Dat	e Submitted:						
☐ I cer	tify the information and has not chang	•	ired in Section B-2, Chemical Analysis was supplied to the Department for the year				
For	m Submitted:		Form 26R				
			Other (specify)				
Dat	e Submitted:						
	tify the information renewed		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.				
For	m Submitted:		Form 26R				
			Other (specify)				
Date	e Submitted:						
Name of Re	sponsible Official		Title Environmental Specialist				
Dina Brow	1		$\mathcal{A}_{1}$				
Signature		$\rightarrow$	Date				
	·	$\overline{c}$	•				

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120828

10120828

Phone: (570) 888-0169 Fax: (570) 888-0717

**TEST REPORT** 

**SEND DATA TO:** 

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PAGE: 1 of 2

PO#:

PW\$ ID#

WO#:

AF78554

(607) 731-0145

PHONE: FAX:

(607) 562-4001

03-025

RECEIVED FOR LAB BY: CMS	DATE:	12/06/2010 15:40			Pa	ige 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG		Lab ID: 10120828-001A Time: 12/06/2010 11:48	Compo	site		
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	212 mg/Kg	EPA 9071		12/08/10 14:20	12/08/10	
Sample Note: Analysis performed	d by Microbac Laboratories,	Inc-Erie Division				
SAMPLE: Air Cuttings		Lab ID: 10120828-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 12/06/2010 11:48				
Took	Result	Method	SLOQ	Analyşiş Start	Analysis End	Analyst *
<u>Test</u> Moisture	41.8 %	Moisture Calc.	0.01	12/06/10 17:30	12/07/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	12/06/10 17:05	12/06/10	IC-SA
•	6.51@22.0°C	EPA 9045C	0.1	12/07/10 14:20	12/00/10	MED-SA
рН	0.01@22.0 C	EFA 50450		12/07/10 14.20	12/01/10	MED-9X
SAMPLE: Air Cuttings	Į	Lab ID: 10120828-001C	Compo	site		
SAMPLED BY: SG	Sample	Time: 12/06/2010 11:48	SLOQ			
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Sodium	393 mg/Kg	EPA 6010B	37.8	12/07/10 12:10	12/07/10	GSR-CV
Chloride	301 mg/Kg	Z EPA 300.0	46.9	12/07/10 13:24	12/08/10	HDP-CV
SAMPLE: TCLP Leachate of Air Cu	ttings	Lab ID: 10120828-001E	Compo	site		
SAMPLED BY: SG	Sample	Time: 12/07/2010 8:00				
Took	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
<u>Test</u> Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/07/10 10:15	12/09/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/08/10 12:15	12/08/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
•	< 0.100 mg/L	EPA 6010B	0.100	12/08/10 12:15	12/08/10	GSR-CV
Copper - TCLP extracted  Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/08/10 12:15	12/08/10	GSR-CV
read - ICLY extracted	~ 0.000 mg/L	EI / 0010B	Ų.000	12.50710 12110		CO11 C4

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Z Due to matrix bias, spike recovery was outside acceptance limits

MANAGER	Carrie M. Darkis	DATE:	12/10/2010
---------	------------------	-------	------------

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120828

12/08/10

**GSR-CV** 

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

NAME:

Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS:

337 Daniel Zenker Dr

Horseheads, NY 14845

< 0.200 mg/L

WO#:

10120828

PAGE:

2 of 2

PO#:

AF78554

0.200

PHONE: FAX:

(607) 731-0145

(607) 562-4001

**TEST REPORT** 

PWS ID#

12/08/10 12:15

03-025

Zinc - TCLP extracted

RECEIVED FOR LAB BY: CMS DATE: 12/06/2010 15:40 Page 2 of 2 Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 12/08/10 12:15 12/08/10 GSR-CV Selenium - TCLP extracted < 0.500 mg/L 0.500 12/08/10 12:15 12/08/10 **EPA 6010B GSR-CV** < 0.100 mg/L Silver - TCLP extracted **EPA 6010B** 0.100 12/08/10 12:15 12/08/10 **GSR-CV** 

**EPA 6010B** 

## **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Due to matrix bias, spike recovery was outside acceptance limits

MANAGER	Carrie M. Davis	DATE:	12/10/2010
	and the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contra		

**CHAIN OF CUSTODY** PAGE 1 OF 1 REPORT TO: Talisman / UEG ARE SPECIAL DETECTION LIMITS geowetlands@aol.com W/O#: 10120828 NEEDED: YES / ✓ NO REFRIGERATE SAMPLL BEING USED FOR: IF YES, PLEASE ATTACH NYDEC PADEP AFTER COLLECTION DRINKING WATER SLUDGE IS A QC PACKAGE NEEDED? GROUND WATER SO SOIL CONTACT SW SURFACE WATER HZ HAZARDOUS Steve Gridley LANDFILL YES NO **TRANSPORT** WASTE WATER OTHER DEJONIZED WATER DI DISTILLED WATER PERSONAL OTHER IF YES, PLEASE ATTACH REQUIREMENTS 607-731-0145 TO SAMPLE TYPE, GRAB/COMPOSITE F LABORATORY HYDROCHLORIC ACID SODIUM HYDROXIDE FAX# IN COOLER SULFURIC ACID ASCORBIC ACID BILL TO: Talisman NITRIC ACID AC ACETIC ACID WITH ICE COMPOSITED ON RECEIPT SO 3 SODIUM SULFITE NH. AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE THE OF SAMPLING NONE MERCURIC CHLORIDE SAMPLE MATRIX DATE SAMPLED Please fill out all An incomplete chain of custody may delay the applicable areas processing of your sample(s). SAMPLER SIGNATURE / AFFILIATION completely 4120 CONTAINER SAMPLING POINT **ANALYSIS TO BE PERFORMED** LAB USE ONLY (PER CONTAINER) 12/6/148/90 SAN TPH Air Cuttings pH, Chlorides, Sodium TCLP 8 RCRA Metals + Cu, Ni, Zn 3 Free Liquids / % Moisture A- TPH B-pH, Free liquid, 1. moisture C-Anions, metals Perform BTEX ONLY IF the TPH exceeds 100,000 mg/Kg D- Total Sample E-TCLP metals Z HOUR TURNAROUND DAY TURNAROUND 10 LAB USE ONLY AND THE METERALURE OF TOMACHOLIFO THE TOWN OF THE PARTY AND PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND THE PARTY AND TH RELINQUISHED BY DATE: 1216110 RECEIVED BY: DATE: TIME: 540

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Ad Graphics Printing 570-888-0685

TIME:

DATE:

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121730

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121730

PAGE:

1 of 3

PO#:

AF78554

(607) 562-4000

PHONE: FAX:

(607) 562-4001

**TEST REPORT** 

PWS ID#

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RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 1 of 3

TEOLIVED FOR EAD DT. TAME	DATE.	12/03/2010 10:40			1.6	ige I OI J
SAMPLE: Inv. Cuttings SAMPLED BY: SG		Lab ID: 10121730-001A Time: 12/08/2010 21:56	Grab			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	
Sample Note: Analysis perform	ed by QC Laboratories					
SAMPLE: Inv. Cuttings		Lab ID: 10121730-001C	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:56				
		A	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	
Cyanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV
Reactive Sulfide	16 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Inv. Cuttings	I	_ab ID: 10121730-001D	Grab			
SAMPLED BY: SG	Sample	Time: 12/08/2010 21:56	61.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
% Solids	75.20 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	12.95 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA
SAMPLE: TCLP Leachate of Inv.	Cuttings	_ab ID: 10121730-001F	Grab			
SAMPLED BY: SG	Sample	Time: 12/11/2010 12:45				
			SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	¸12/15/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA

### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- RPD outside accepted recovery limits

	(1)		
MANAGER	Carrie M. Davis	DATE:	12/16/2010

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121730

Phone: (570) 888-0169 Fax: (570) 888-0717

**SEND DATA TO:** 

NAME: Dina Brown

WO#:

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

PO#: AF78554

PAGE:

PWS ID#

10121730

2 of 3

TEST REPORT

PHONE: FAX:

(607) 562-4000

(607) 562-4001

(007) 502-4001						
E1 H						
RECEIVED FOR LAB BY: RML	DATE	: 12/09/2010 15:45			Pa	age 2 of
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-S/
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10121730-001G	Grab			
SAMPLED BY: SG		ole Time: 12/07/2010 8:00				
<del>-</del> .	D II	1 # _ #L1	SLOQ	Augustusta Ctant	6	A make make
Test	Result	Method FDA 6046B	0.050	Analysis Start	Analysis End	Analyst 1
Strontium - TCLP extracted	< 0.050 mg/L	EPA 6010B	0.050	12/08/10 12:15	12/08/10	GSR-C\
Sample Note: Sample for TCLP ex	tracted Strontium was re	ceived on 12/b/10 at 15:40 b	y Civis.			
SAMPLE: TCLP Leachate of Inv. Cut	tings	Lab ID: 10121730-001H	Grab			
SAMPLED BY: SG	Samp	ole Time: 12/11/2010 12:45	81.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst '
pH	6.17@16.4°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
SAMPLE: ZHE Extract of Inv. Cutting		Lab ID: 10121730-001I	Grab			
SAMPLED BY: SG		ole Time: 12/12/2010 13:10				
_			SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst '
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Chlorobenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S/
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-S
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA

## **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- B Analyte detected in the associated Method Blank
- R RPD outside accepted recovery limits

AAANIA CED	Carrie M. Davis	DATE:	12/16/2010
MANAGER	Carrie M. Carris	DAIE.	12/10/2010

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121730

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Dina Brown

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10121730

PAGE:

3 of 3

PO#:

AF78554

**TEST REPORT** 

PWS ID#

PHONE: FAX:

(607) 562-4000 (607) 562-4001

E1 H	•					
RECEIVED FOR LAB BY: RML	DA	TE: 12/09/2010 15:45			Pa	ige 3 of 3
Tetrachloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Inv. Cutting	gs	Lab ID: 10121730-001J	Grab			
SAMPLED BY: SG	Sa	imple Time: 12/10/2010 11:15	SLOQ			
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	152 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cutting	gs	Lab ID: 10121730-001L	Grab			
SAMPLED BY: SG	Sa	mple Time: 12/10/2010 11:15				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
рН	7.05@16.7°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	342 mg/L	R SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings		Lab ID: 10121730-001M	Grab			
SAMPLED BY: SG	Sa	mple Time: 12/10/2010 10:25	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed by	Analytical Services	, Inc.				

### **REMARKS:**

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Analyte detected in the associated Method Blank
- RPD outside accepted recovery limits

MANAGER	(auxi M. / )avis	DATE:	12/16/2010

CHAIN OF CUSTODY						1	Benc	PAGE1	OF1
REPORT TO: Talisman / UEG					2	.566 F	Penns) 381/0#- 40404700	ADD COECHA DETECT	HOLL HISTO
geowetlands@aol.com							W/O#: 10121730	ARE SPECIAL DETECT	
		NGEE	RATE S	A KADI	EG		· ·	NEEDED: YES /	<del></del>
			LLECT		EO	<i>[</i>	RESULTS ARE BEING USED FOR:  W DRINKING WATER SL SLUDGE NYDOH NYDEC PADEF	IF YES, PLEASE ATTACK	Н
						<i>j</i> -	W GROUND WATER SO SOIL I		GE NEEDED?
CONTACT Steve Gridley	1	TANS	SPORT			, -	W SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller W WASTE WATER OTHER	YES [	ONE
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BILL TO: Talisman	] '	WITH			/		N NITRIC ACID AC ACETIC ACID	/ /ઙૄૻ/	
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1 Inv Cuttings	12/8	7/56	50	С	se	12	Ignitability, Reactive Sulfide & Cyanide		
2				С	Ш	11_	PCBs, Total Solids		
3 A flowls, Isn.				G			Total Volatile Solids		
4 C- Reactivity			Ш_	C			Ammonia-Nitrogen		
5 D- TS, TUS				С	$\parallel$		Water Leaching Procedure: COD,		
6 E-T. Sample	1	1	1	С	1	V	Total Solids, Oil & Grease,		
7 F-TELP BNA POSTS.					<b> </b>				
8 6-TCCP Hots. Sr						1			
9 4- TCCP pH		<u> </u>	1-57	م ج	3.6	1	36 HOUR TURNAROUND		
10 I - TCEP Vols.		L -	A51	m-	7.3	o#	DAY TURNAROUND		7/2
11 J- ASTM COD, NE		M	70	_	<b>'</b>	1			
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# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legib attache	oly printed in the spa d sheet as Form 26	urately completed. All requices provided. If additional spirk, reference the item numb heets needs to match the date	ace is necessary, ider er and identify the o	ntify	Date	DEP.I Receive		eneral Notes
Gener	al Refe	rence 287.54							
Date P	repared	d/Revised	February 11, 2011						
			A. CLIENT (GENERATOR	ROFTHE WASTE) I	NFC	RMAT	ION		
	any Nar								
		ergy USA Inc.					EDA	C	rata - ID#
		<b>y, Name of Parent Co</b> ergy Inc.	ompany				N/A	Gener	rator ID#
		ling Address Line 1	C	ompany Mailing Addre	ess Li	ine 2	11//		
50 Pei	nnwood	d Place		,,					
-	-	iress Last Line – City		Zip+4		Phone			Ext
Warre			PA PA	15086		(724) 8			
Brown	•	ntact Last Name	<b>First Name</b> Dina	Mi			Suffix	X	
Munici				County		···			
Warre				Allegheny					
	t Phon		Contact Email Address	<u> </u>					
	814-53		dybrown@talismanusa.c				,		
			pany Mailing Address (noted a					Yes	⊠ No
the			generation and storage. Drill of the located at 778 Cease Drive.						
	ers on s		te located at 110 Cease Drive,	rroy rownship, bradiore	u Cou	iity, r 🔼	vv asic	15 5101	eam
Munici	pality	Troy	County Bradfo			Stat	te	PA	
Munici	pality	_	County Bradfo			Stat	te	PA	
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Resi	dual	Troy Res	SECTION B. WAST sidual Waste e Description	E DESCRIPTION	С	Unit of Measur u yd	e gal	PA	Frame
Resi Waste	dual	Troy Res Cod	SECTION B. WAST sidual Waste e Description	Amount 1,094		Unit of Measur u yd	e	PA	
Resi Waste	dual	Troy  Res Cod  Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P	Amount 1,094	□ c	Unit of Measur u yd [	e gal	PA	Frame
Resid Waste 810	dual Code pH Ra	Troy  Res Cod  Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P	Amount 1,094  ROPERTIES (based on analyses or thod 9095) 95)	□ c	Unit of Measur u yd [	e gal	PA	Frame
Residue Waste 810	dual Code DH Ra Physic	Troy  Res Cod  Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P  8.87 to  Liquid Waste (EPA Me  Solid (EPA Method 90)  Gas (ambient tempera	Amount 1,094  ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure)  Odd	C C III	Unit of Measur u yd [	e e ] gal ☑ ton		Frame One Time
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Residuante 810	dual Code DH Ra Physic	Troy  Res Cod  Drill cuttings (oil an  nge cal State	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P  8.87 to  Liquid Waste (EPA Me  Solid (EPA Method 90)  Gas (ambient tempera	Amount 1,094  ROPERTIES (based on analyses or betted 9095) 95) ture & pressure) Ode I Phases of Separation	c c lb	Unit of Measuruyd [2] edge)  Earthy /	e gal ☑ ton		Frame One Time
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Residuante 810	dual Code pH Ra Physic	Troy  Res Cod  Drill cuttings (oil an  nge cal State  cal Appearance	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P  8.87 to  Liquid Waste (EPA Me  Solid (EPA Method 909  Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount  1,094  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro	c lbknowl	Unit of Measuru yd [ ] edge)  Earthy / One ragmen	e gal d ton		Frame One Time
Residuate 810	dual Code pH Ra Physic	Troy  Res Cod  Drill cuttings (oil an  nge cal State  cal Appearance  sults of a detailed chetions, is attached.	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P 8.87 to Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquic Describe each phase of s	Amount  1,094  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Ro BIS ATTACHMENTS waste, as described in	c lbknowl	Unit of Measuru yd [ ] edge)  Earthy / One ragmen	e gal de ton	Petro	Frame One Time Dleum
Resident Waste 810 a. b. c.	dual Code pH Ra Physic Physic	Troy  Res Cod  Drill cuttings (oil and and and and and and and and and and	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P 8.87 to Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquic Describe each phase of s  2. CHEMICAL ANALYS emical characterization of the	Amount  1,094  ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)  Odd Phases of Separation eparation. Soil and Re SIS ATTACHMENTS waste, as described intached.	knowl	Unit of Measur u yd [ ] edge)  Earthy / One ragmen	gal don	Petro	One Time  Oleum  No
Residuate 810  a. b.	pH Ra Physic  Physic  The re instruct A deta The quattach	Troy  Res Cod  Drill cuttings (oil and and and and and and and and and and	SECTION B. WAST sidual Waste e Description ad gas)  1. GENERAL P 8.87 to Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquic Describe each phase of s  2. CHEMICAL ANALYS emical characterization of the	Amount  1,094  ROPERTIES (based on analyses or letted 9095) 95) ture & pressure)  Odd I Phases of Separation eparation. Soil and Resis ATTACHMENTS waste, as described intached. yed by the laboratory(in	knowl	Unit of Measur u yd [ ] edge)  Earthy / One ragmen	e gal don don don don don don don don don don	Yes	One Time  Oleum  No No

33	3.	<b>PROCESS DESCRIPTION</b>	& SCHEMATIC ATTA	CHMENTS									
a.	the waste, as specified in the instructions, is attached.												
b.	b. A schematic of the manufacturing and/or pollution control processes producing the waste, Signal Yes as specified in the instructions, is attached.												
c. If portions of the information submitted are confidential, the substantiation for Yes No a confidentiality claim, as described in the instructions, is attached.													
SECTION C. MANAGEMENT OF RESIDUAL WASTE													
1. PROCESSING OR DISPOSAL FACILITY (IES)													
The area below (ad.) will accommodate the identification of two facilities. Attach additional sheets if necessary.													
a.	Solid waste permit number(s) 101243	for processing or dispo	sal facility being uti	ilized.									
b.	Facility Name	Northern Tier Solid W	aste Authority										
	Address Line 1	108 Steam Hollow Ro	ad			· · · · · · · · · · · · · · · · · · ·							
	Address Line 1												
	Address City State ZIP	Troy	PA PA	16947									
	Municipality	West Burlington Twp	County	Bradford									
c.	Facility Contact Name	Charles Woodward		·····		***************************************							
	Title	(570) 007 4477	F!! Add										
	Phone	(570) 297-4177	Email Address	chuckwoodward(	@epix.net 								
d.	Volume of waste shipped to p 1,094	rocessing or disposal fa cu yd gal	icility in the previou										
a.	Solid waste permit number(s)	for processing or dispo	sal facility being uti	lized.									
b.	Facility Name												
	Address Line 1												
	Address Line 1												
	Address City State ZIP												
	Municipality		County										
C.	Facility Contact Name												
	Title		F!! Add										
	Phone		Email Address										
d.	Volume of waste shipped to p	rocessing or disposal fa cu yd 🔲 gal	cility in the previou										
1.		2. BENE	FICIAL USE	24									
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No							
	If "Yes", list the general perm	t number or approval ու	ımber.										
b.	Volume of waste beneficially i												
	0	cu yd 🔲 gal	☐ lb ☐ to	n (check one)									

	SECTION D. CERTIFICATION								
I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment.									
Check the following, if applicat	le:								
I certify the information and has not chan	required in Section B-1, General Properties was supplied to the Department for the year ged.								
Form Submitted:	Form 26R								
	Other (specify)								
Date Submitted:									
I certify the information	required in Section B-2, Chemical Analysis was supplied to the Department for the year ged.								
Form Submitted:	Form 26R								
	Other (specify)								
Date Submitted:									
l certify the information in for the year and h	equired in Section B-3, Process Description and Schematic, was supplied to the Department as not changed.								
Form Submitted:	Form 26R								
	Other (specify)								
Date Submitted:									
Name of Responsible Official	Title Environmental Specialist								
Dina Brown Signature	9/km Date 2/2.5/4								

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10030587

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

Steve Gridley NAME:

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

(607) 562-4001

WO#: 10030587

PAGE: 1 of 1

PO#:

PWS ID#

**TEST REPORT** (607) 562-4000

Inv. Spill

PHONE:

FAX:

RECEIVED FOR LAB BY: DLM2 DATE: 03/03/2010 9:38 Page 1 of 1

SAMPLE: Pad-Clean Soil-W1	Li	ab ID: 10030587-001A	Compo	site				
SAMPLED BY: SG	Sample	Sample Time: 03/02/2010 12:00						
<u>Test</u>	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *		
рН	8.87 @ 24.2°C	EPA 9045D		03/08/10 14:37	03/08/10	NC-CV		
Total Petroleum Hydrocarbons	< 170 mg/Kg	EPA 1664A	170	03/11/10 9:00	03/11/10	DTG-CV		
SAMPLE: Pad-Clean Soil-W1	La	ab ID: 10030587-001C	Compo	site				
SAMPLED BY: SG	Sample 3	Time: 03/02/2010 12:00						
			<u>SLOQ</u>					
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *		
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	03/11/10 8:30	03/12/10	KW-CV		
Arsenic - TCLP extracted	< 0.500 mg/L.	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV		
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	03/10/10 13:40	03/11/10	RMD-CV		
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV		
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV		
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV		
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV		
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV		
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	03/10/10 13:40	03/11/10	RMD-CV		
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	03/10/10 13:40	03/11/10	RMD-CV		
Zinc - TCLP extracted	6.15 mg/L	EPA 6010B	0.200	03/10/10 13:40	03/11/10	RMD-CV		

## **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA

	/ 1	· ·		
MANAGER	Carri	M. Oakis	DATE:	3/12/2010



## COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

# FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form 26R, reference the item number and identify the date prepared. The date on attached sheets needs to match the date noted below.			ntify Date Receive	DEPUSE ONLY Date Received & General Notes		
Genera	al Refe	ence 287.54				
Date P	repared		ebruary 11, 2011			
			N. CLIENT (GENERA	TOR OF THE WASTE) I	NEORMATION	
	any Nar					
		ergy USA Inc. /, Name of Parent Co	mnany		FΡΔ	Generator ID#
		ergy Inc.	puny		N/A	001101.4101.1211
	•	ling Address Line 1		Company Mailing Addr	ess Line 2	
		l Place				
Warre	-	lress Last Line – City	Sta PA		Phone (724) 814-530	Ext
		tact Last Name	First Name		Suffi	
Brown			Dina			
Munici				County		
Warre	ndale :t Phon	e Ext	Contact Email Addre	Allegheny		
	314-53		dybrown@talismanu			
Is the v	vaste g	enerated at the Comp	oany Mailing Address (no			Yes 🛛 No
				<u>Drill cuttings are generated of </u>		
contain	ers on s		cated at 1749 Lodge Hill H	oad, Columbia Township, B	radford County, PA.	Waste is stored in
Munici		Columbia	County B	radford	State	PA
			SECTION B. W.	ASTE DESCRIPTION	1	
Resid			idual Waste		Unit of	Time
Waste	Code	Code	Description	Amount	Measure	Frame
810		Drilling Cuttings (Oi	l and Gas)	240	cuydgal lb ⊠ton	One Time
			1Gener	AL PROPERTIES	A Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Committee Comm	
a.	pH Ra		12.24 to	(based on analyses or	knowledge)	
b.	Physic	al State	Liquid Waste (EP	•		
			Solid (EPA Metho	ig 9095) iperature & pressure)		
C.	Physic	al Appearance	Color Greyish B	<u> </u>	or Earthy / Sligh	t Petroleum
		<b></b>		iquid Phases of Separatio		
				of separation. Soil and R		
************			2 CUENICAL AV	All Voic AA cimento		
<u> </u>	The re	sults of a detailed ch		ALYSIS ATTACHMENTS of the waste, as described	in the	Yes No
a. The results of a detailed chemical characterization of the waste, as described in the No instructions, is attached.						
b.		<del></del>	e waste sampling metho			Yes No
c.	The al	1 11				
			ty control procedures er	nployed by the laboratory	ies) is	Yes No
d.	attach	ed.	ty control procedures er s waste determination is		ies) is	Yes No

	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTAC	HMENTS	62	
a.	A detailed description of the the waste, as specified in the			sses producing	⊠ Yes	☐ No
b.	A schematic of the manufact as specified in the instruction		ontrol processes prod	lucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEMI	ENT OF RESIDU	AL WASTE		
40.			DISPOSAL FACILITY(IE			
The ar	rea below (ad.) will accommod	late the identification of	two facilities. Attach	additional sheets	if necessary	
a.	Solid waste permit number(s) 100361	for processing or dispo	osal facility being utili	ized.		
b.	Facility Name	McKean County Land	lfill	-		
	Address Line 1	19 Ness Lane				
	Address Line 1					VA
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				
	Title					
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Volume of waste shipped to p	cu yd 🔲 gal	☐ lb      ton	(check one)		
a.	Solid waste permit number(s) 8-4630-00010		sal facility being utili	zed.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	Road			
	Address Line 1					
	Address City State ZIP	Painted Post	NY	14870		
	Municipality	Erwin Twp	County	Steuben		
c.	Facility Contact Name	Joseph Boyles				
	Title					
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	illa.com	
d.	Volume of waste shipped to p					
	50	cu yd 📗 gal	☐ lb 🔀 ton	(check one)		
7.00		SANOT INCOME AND A PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	FICIAL USE			
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general permit number or approval number.					
b.	Volume of waste beneficially					*****
	0	cu yd 🔲 gal	☐ lb ☐ ton	(check one)		

	3: Process Description & Schematic Attachments						
a.	A detailed description of the manufacturing and/or pollution control processes producing Yes No the waste, as specified in the instructions, is attached.						
b.	A schematic of the manu as specified in the instru	facturing and/or pollution co ctions, is attached.	ntrol processes pro	ducing the waste,	Yes	☐ No	
C.	If portions of the informa	ion submitted are confidenti	al, the substantiation	on for Yes	No	⊠ N/A	
	-	described in the instruction					
	SEC	TION C. MANAGEME					
		1. PROCESSING OR D					
The a	• •	modate the Identification of t			if necessary	' <b>.</b>	
a.	Solid waste permit numb 9-0232-00003	er(s) for processing or dispo	sal facility being uti	lized.			
b.	Facility Name	Hyland Landfill					
İ	Address Line 1	6653 Herdman Road					
	Address Line 1						
	Address City State ZIP	Angelica	NY	14709			
	Municipality	Angelica	County	Allegany			
C.	Facility Contact Name	Larry Shilling					
	Title						
	Phone	(585) 466-7271	Email Address	larry shilling@ca	sella.com		
d.	Volume of waste shipped	to processing or disposal fa	cility in the previou	s year.			
	38	☐ cu yd ☐ gal	☐ ib ⊠ to	n (check one)			
a.	a. Solid waste permit number(s) for processing or disposal facility being utilized.						
}	8-0728-00004	, , , , , , , , , , , , , , , , , , , ,	, , <u>,</u>				
b.	Facility Name	Chemung County Lan	dfill				
-	Address Line 1	1690 Lake Street					
	Address Line 1	1000 Eano Officer		<del></del>	<del>_</del> _		
	Address City State ZIP	Elmira	NY	14903		·	
ļ	Municipality	Elmira	County	Chemung			
c.	Facility Contact Name	Carla Canjar					
-	Title	Environmental Manag	er				
	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com		
d.	Volume of waste shipped	to processing or disposal fa	cility in the province				
u.	20	cu yd gal	☐ Ib ☐ to				
	40						
			FICIAL USE		<del> </del>	<del></del>	
a.	Has the waste been appro				∐ Yes	⊠ No	
		ermit number or approval nu					
b.		ally used in the previous year					
	0	cu yd gal	☐ lb ☐ tor	n (check one)			

#### 2540-PM-BWM0347 Rev. 1/2011

	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTA	CHMENTS		1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufact as specified in the instruction		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as de			n for	☐ No	⊠ N/A
	SECTI	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE		
4.		1. PROCESSING OR I	DISPOSAL FACILITY(I	ES)		
The ar	rea below (ad.) will accommo	date the identification of	two facilities. Attacl	additional sheets	if necessary.	
a.	Solid waste permit number(s 100945	) for processing or dispo	osal facility being util	ized.		
b.	Facility Name	Cumberland County I	_andfill			
	Address Line 1	135 Vaughn Road				
	Address Line 1	~ ~~~				
	Address City State ZIP	Newburg	PA	17240		
	Municipality	Newburg Boro	County	Cumberland		
C.	Facility Contact Name	Dusty Hilbert				
	Title	Compliance Manager	•			
	Phone	(717) 729-5261	Email Address	dhilbert@iswaste	e.com	
d. a.	Volume of waste shipped to p 18 Solid waste permit number(s	cuyd 🔲 gal	☐ lb      tor	(check one)		***************************************
b.	Facility Name					
	Address Line 1					
	Address Line 1					
	Address City State ZIP					
	Municipality		County			
c.	Facility Contact Name					
	Title		*****			
	Phone		Email Address			
d.	Volume of waste shipped to p	processing or disposal fa	cility in the previous	vear.		
manuschen Kalif Wager (1884-de)		cu yd 📗 gal	☐ lb ☐ tor	-		
			FICIAL USE			<b>57.</b> 17
a.	Has the waste been approved				Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially	used in the previous yea cu yd gal	ar lb ton	(check one)		

Signature

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year __ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title Environmental Specialist

Date

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124000

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10124000

PAGE:

1 of 4

PO#:

AF 78737

PHONE: FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

J4H Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50			Pa	age 1 of 4
SAMPLE: Air Cuttings	L	ab ID: 10124000-001A	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 9:45	61.00			
Test	Result	<u>Method</u>	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	<190 mg/Kg	EPA 9071	190	12/29/10 15:10	12/29/10	
Sample Note: Analysis performe	d by Microbac Laboratories, l	nc-Erie Division.				
SAMPLE: Air Cuttings	-	ab ID: 10124000-001B	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 9:45	SLOQ			
<u>Test</u>	<u>Result</u>	Method		Analysis Start	Analysis End	Analyst *
Moisture	71.4 %	Moisture Calc.	0.01	01/03/11 11:30	01/04/11	KMF-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	12/28/10 17:05	12/28/10	IC-SA
рН	12.24@19.8°C	EPA 9045C		12/29/10 11:41	12/29/10	SG-SA
SAMPLE: Air Cuttings	l	ab ID: 10124000-001C	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 9:45	SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Sodium	941 mg/Kg	EPA 6010B	69.4	12/30/10 10:00	01/03/11	GSR-CV
Chloride	926 mg/Kg	EPA 300.0	48.0	01/04/11 12:43	01/05/11	HDP-CV
ASTMD Chloride	43.7 mg/L	EPA 300.0	25.0	01/07/11 15:12	01/07/11	HDP-CV
ASTMD pH	12.25 @ 19.3°C	SM4500H+B		01/07/11 14:22	01/07/11	LTW-CV
Cyanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2	01/06/11 9:28	01/07/11	HDP-CV
Reactive Sulfide	< 64 mg/Kg	SW846 7.3	64	01/10/11 8:55	01/10/11	LTW-CV
SAMPLE: TCLP Leachate of Air Co	uttings	ab ID: 10124000-001E	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/30/10 11:30	01/03/11	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/30/10 9:30	01/03/11	GSR-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Value above calibration range but within annually verified linear range

MANAGER _	Carrie M. Davis	DATE:	1/12/2011
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124000

01/03/11

01/03/11

**GSR-CV** 

GSR-CV

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10124000

PAGE:

2 of 4

PO#:

AF 78737

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

**TEST REPORT** 

PWS ID#

J4H Well Pad

RECEIVED FOR LAB BY: CMS DATE: 12/28/2010 13:50 Page 2 of 4 < 0.100 mg/L Cadmium - TCLP extracted **EPA 6010B** 0.100 01/03/11 **GSR-CV** 12/30/10 9:30 Chromium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 12/30/10 9:30 01/03/11 **GSR-CV** Copper - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 12/30/10 9:30 01/03/11 **GSR-CV** Lead - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 12/30/10 9:30 01/03/11 **GSR-CV** Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 12/30/10 9:30 01/03/11 **GSR-CV** Selenium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 12/30/10 9:30 01/03/11 **GSR-CV** Silver - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 12/30/10 9:30 01/03/11 **GSR-CV** Strontium - TCLP extracted 3.02 mg/L 0.050 12/30/10 9:30

SAMPLE: TCLP Leachate of Air Cuttings

Zinc - TCLP extracted

SAMPLED BY:

Lab ID: 10124000-001F

EPA 6010B

**EPA 6010B** 

0.200

Grab

12/30/10 9:30

Sample Time: 01/06/2011 8:00

			SLOQ			
Test	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Pentachlorophenol	< 0.50 mg/L	EPA 8270C	0.50	01/10/11 10:20	01/10/11	RHH-SA
2,4-Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Hexachlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	01/10/11 10:20	01/10/11	RHH-SA
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	01/11/11 8:25	01/11/11	RHH-SA

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

< 0.200 mg/L

Value above calibration range but within annually verified linear range

MANAGER	Carrie M. Davis	DATE:	1/12/2011

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124000

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

ADDRESS:

NAME: Dina Brown

COMPANY: Talisman Energy USA, Inc.

337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

WO#:

10124000

PAGE:

3 of 4

PO#:

AF 78737

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(607) 562-4000

(607) 562-4001

.___ ....

PWS ID#

J4H Well Pad

RECEIVED FOR LAB BY: CMS

DATE: 12/28/2010 13:50

Page 3 of 4

AMPLE: TCLP Leachate of Air Cu	ıttings L	ab ID: 10124000-001G	Grab			
SAMPLED BY:	Sample	Time: 01/06/2011 8:00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst 1
Benzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-S/
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
	•	EPA 8260B		01/07/11 9:22	01/07/11	•
Chlorobenzene	< 0.0250 mg/L		0.0250	•		CTM-SA
Chloroform	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,2-Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,1-Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Ethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Isopropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Tetrachloroethene	0.0260 mg/L	EPA 8260B		01/07/11 9:22	01/07/11	CTM-SA
Toluene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Trichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-S/
1,2,4-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
1,3,5-Trimethylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Vinyl chloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
Methyl tert-butyl ether	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
2-Butanone	< 0.0500 mg/L	EPA 8260B	0.0500	01/07/11 9:22	01/07/11	CTM-S/
AMPLE: Air Cuttings	L	ab ID: 10124000-001H	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00				
	<b></b>		SLOQ			
Test	Result	Method		Analysis Start	Analysis End	Analyst
Total Organic Halides	< 5.00 mg/kg	SW846/9023	5.00	01/11/11 15:00	01/11/11	
Sample Note: Analysis performed	d by Analytical Services, Inc.					

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

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L. Value above calibration range but within annually verified linear range

			. / /
MANAGER	Carrie M. Davis	DATE:	<i>1/12/2011</i>

# Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

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Phone: (570) 888-0169 Fax: (570) 888-0717

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NAME: Dina Brown

WO#:

10124000

COMPANY: Talisman Energy USA, Inc. ADDRESS:

PAGE:

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337 Daniel Zenker Dr

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PWS ID#

FAX:

(607) 562-4001

J4H Well Pad

RECEIVED FOR LAB BY: CM\$

DATE: 12/28/2010 13:50

Page 4 of 4

SAMPLE: Air Cuttings

Lab ID: 10124000-001i

Grab

SAMPLED BY: DJD

Sample Time: 12/29/2010 8:00

SLOQ

Test Ignitability

Result Negative AS IS

Method SW846 1030

Analysis Start 01/07/11 14:00 Analysis End Analyst* 01/07/11

Sample Note: Analysis performed by QC Laboratories.

## **REMARKS:**

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Value above calibration range but within annually verified linear range

MANAGER	Cami	M. Davis	DATE	E:	

CHAIN OF CUSTODY					PAGE 1 OF 1
REPORT TO: Talisman / UEG					
geowetlands@aol.com	) v	//O#	<b>#: 10124000</b>		ARE SPECIAL DETECTION LIMITS  NEEDED: YES / 17 NO
twollin@rallysolutions.ca	REFRIGER Crum LLC		MESULTS ARE BEIN	G HISED FOR:	IFYES, PLEASE ATTACH
	AFTER COLLECTION	/DW	DRINKING WATER SL SLUDGE NYDOH NYD	EC PADEP	IS A QC PACKAGE NEEDED?
CONTACT CONTACT		GW SW	GROUND WATER SO SOIL		YES ZINO
PH# 400-01-01-15 724-814- 5321	TRANSPORT TO	/ WM	WASTEWATER OTHER DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHEI	R	IF VES DI FASE ATTACH DEGI INDEMENTS
FAX#	LABORATORY	\[\begin{align*} \begin{align*} \beg	/ /H HYDROCHLORIC ACID OH SODIUM HYDROXIDE		1/\$/
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7011 // 4/5/2020	<u> </u>		, ,,,,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Came Single Company	
PO# A F # A F 78737	\ \\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<b>F</b>	An incomplete chain of custody may delay the		Please fill out all
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SAMPLER SIGNATURE / AFFILIATION			§ /		
CONTAINER SAMPLING POINT, Shale 610	18/8/8/8/	\$\E	ANALYSIS TO BE PERFORMED (PER CONTAINER)	<i> 8 ₹ </i>	LAB USE ONLY
1 Air Cuttings	4/19/9:45 SO G 19	Dung	TPH		-0014-8 1
2	7,0		pH, Chlorides, Sodium		
3			TCLP 8 RCRA Metals + Cu, Ni, Zn		
4 A- TPH			Free Liquids / % Moisture		
5 B- wet chem					
6 C - Anion Metals As	amplici RON		TCLP 8260 / 8270 ONLY IF the TPH		
7 D-Tota Sample			exceeds 120,000 mg/Kg		
BE-TCLPMetals					
9 F- 82007CLP			HOUR TURNAROUND		
10 G BLOTCH			7-14 Day DAY TURNAROUND		
117, 450			L du [[5]]		
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#### COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

### FORM 26R CHEMICAL ANALYSIS OF RESIDUAL WASTE ANNUAL REPORT BY THE GENERATOR

typed each	or legit attache	oly printed in the spac d sheet as Form 26F	rrately completed. All reques provided. If additional set, reference the item numets needs to match the dat	pace is necessary, ident ber and identify the da	ify Date Receive	JSE <b>≨ONLY</b> sd & General Notes
Genera	al Refe	rence 287.54		····		
Date P	repare	d/Revised F	February 11, 2011			
		SECTION A	. CLIENT (GENERATO	R OF THE WASTE) IN	FORMATION	
	any Nar					
		ergy USA Inc. y, Name of Parent Cor	mnany		FDΔ	Generator ID#
		ergy Inc.	прапу		N/A	Sellerator ID#
		lling Address Line 1	(	Company Mailing Addres		
		d Place				
Compa Warre	-	dress Last Line – City	State PA	<b>Zip+4</b> 15086	Phone (724) 814-530	Ext
		ntact Last Name	First Name	13000 MI	(724) 614-330 Suffix	
Brown			Dina			•
Munici				County		
Warre		- F	0 1 1 F 1 A I I	Allegheny		
	ct Phon 814-53		Contact Email Address dybrown@talismanusa.	com		
			any Mailing Address (noted		П	Yes No
			eneration and storage. Drill			
the			ted at 765 Peackham Hill Roa	d, Columbia Township, Br	adford County, PA.	The waste is stored
in conta Munici	ainers o	n site. Columbia	County Bradi	ford	State	PA
Marrier	panty	Columbia	<b>3</b>	TE DESCRIPTION	Giate	<u> </u>
				IL DECUNII IIVI		
Resid	dual	Resi			Unit of	Time
Resid Waste			idual Waste Description	Amount	Unit of Measure	Time Frame
			idual Waste Description		Measure ☐ cu yd ☐ gal	Frame
Waste		Code	idual Waste Description d gas)	Amount 4,981	Measure	
Waste		Drill cuttings (oil and	idual Waste Description	Amount 4,981	Measure □ cu yd □ gal □ lb   ☑ ton	Frame
Waste 810	Code pH Ra	Drill cuttings (oil and	idual Waste Description d gas) 1GENERAL	Amount 4,981  PROPERTIES (based on analyses or kn	Measure □ cu yd □ gal □ lb   ☑ ton	Frame
<b>Waste</b> 810 <b>a.</b>	Code pH Ra	Code Drill cuttings (oil and	idual Waste Description d gas)  1. GENERAL 5.29 to 12.07 Liquid Waste (EPA M Solid (EPA Method 90	Amount 4,981  PROPERTIES (based on analyses or krethod 9095) 095)	Measure □ cu yd □ gal □ lb   ☑ ton	Frame
<b>Waste</b> 810 <b>a. b.</b>	pH Ra Physic	Code Drill cuttings (oil and nge 6 cal State	idual Waste Description d gas)  1. GENERAL 6.29 to 12.07 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temper	Amount  4,981  PROPERTIES (based on analyses or krethod 9095) 1955) ature & pressure)	Measure  cu yd	Frame One Time
<b>Waste</b> 810 <b>a.</b>	pH Ra Physic	Code Drill cuttings (oil and	idual Waste Description  d gas)  1. GENERAL   6.29 to 12.07  Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperature) Color Greyish Black	Amount 4,981  PROPERTIES (based on analyses or krethod 9095) 095) ature & pressure)	Measure  cu yd	Frame One Time
<b>Waste</b> 810 <b>a. b.</b>	pH Ra Physic	Code Drill cuttings (oil and nge 6 cal State	idual Waste Description  d gas)  1. GENERAL  3.29 to 12.07 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Nate of Solid or Liquid Number of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) 095) ature & pressure) ( Odol d Phases of Separation	Measure  □ cu yd □ gal □ lb □ ton  □ cowledge)  r Earthy / Slight One	Frame One Time
<b>Waste</b> 810 <b>a. b.</b>	pH Ra Physic	Code Drill cuttings (oil and nge 6 cal State	idual Waste Description  d gas)  1. GENERAL   6.29 to 12.07  Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperature) Color Greyish Black	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) 095) ature & pressure) ( Odol d Phases of Separation	Measure  □ cu yd □ gal □ lb □ ton  □ cowledge)  r Earthy / Slight One	Frame One Time
<b>Waste</b> 810 <b>a. b.</b>	pH Ra Physic	Code Drill cuttings (oil and nge 6 cal State	idual Waste Description  d gas)  1. GENERAL  3.29 to 12.07 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Nate of Solid or Liquid Number of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate of Solid Or Liquid Nate	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) (based on enalyses or knethod 9095) (cature & pressure) (category) (data Phases of Separation separation. Soil and Ro	Measure  □ cu yd □ gal □ lb □ ton  □ cowledge)  r Earthy / Slight One	Frame One Time
<b>Waste</b> 810 <b>a. b.</b>	Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Phy	Code Drill cuttings (oil and nge 6 cal State cal Appearance	idual Waste Description  d gas)  1. GENERAL  5.29 to 12.07  Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) (based on Expension of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the end of the	Measure  cu yd	Frame One Time
810 a. b.	Physic Physic The reinstruct	Code Drill cuttings (oil and nge 6 cal State cal Appearance sults of a detailed chections, is attached. illed description of the	idual Waste Description  d gas)  1. GENERAL  3.29 to 12.07  Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of Solid CHANALY emical characterization of the waste sampling method is	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) (based on Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separ	Measure cu yd gal lb Ston  recorded to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Frame One Time  Petroleum
### No.	Physic Physic The reinstruct	Code Drill cuttings (oil and nge 6 cal State cal Appearance sults of a detailed che ctions, is attached. illed description of the uality assurance/quality	idual Waste Description  1. GENERAL  3.29 to 12.07 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperations) Color Greyish Black Number of Solid or Liquid Describe each phase of  2. CHEMICAL ANALY	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) (based on Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separ	Measure cu yd gal lb Ston  recorded to the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Frame One Time  Petroleum  Yes No
### No.	Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Physical Phy	Code Drill cuttings (oil and nge 6 cal State cal Appearance sults of a detailed che ctions, is attached. illed description of the uality assurance/qualit ed. sults of the hazardous	idual Waste Description  d gas)  1. GENERAL  3.29 to 12.07  Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of Solid CHANALY emical characterization of the waste sampling method is	Amount  4,981  PROPERTIES (based on analyses or knethod 9095) (based on Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separation Separ	Measure  cu yd  gal  lb  ton  recorded to the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the contr	Petroleum  Yes No No

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70.75.00 (C)	•	PROCESS DESCRIPTION &	P SCHEMATIC ATTAC	NUMENTO		3.00
-					<u> </u>	
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufactor as specified in the instruction		ntrol processes proc	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEME 1. Processing or D	ACMONAGE TO BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD BUILD	\$50.000 properties to the section of the Contraction of the contraction of the section of the contraction of		
-chemical constitution and the	ea below (ad.) will accommod				if nacaccam	*
The ar	` · ·				ii necessary.	
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispos	sal facility being util	ized.		
b.	Facility Name	Hyland Landfill				
	Address Line 1	6653 Herdman Road		***		
	Address Line 1					
	Address City State ZIP	Angelica	NY	14709		
	Municipality	Angelica	County	Allegany		
	<u> </u>			Allegarry		
C.	Facility Contact Name	Larry Shilling				
	Title					
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com	
d.	Volume of waste shipped to p	rocessing or disposal fa	cility in the previous	vear.		
	3,148	cu yd 🔲 gal	☐ lb      ton	(check one)		
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispos	sal facility being utili	ized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge F	Road			
	Address Line 1			· · · · · · · · · · · · · · · · · · ·		
	Address City State ZIP	Painted Post	NY	14870	***************************************	
	Municipality	Erwin Twp	County	Steuben		
	Facility Contact Name	<u> </u>		- Ctouboii		
C.	Title	Joseph Boyles			<del></del>	
		(007) 007 0044	Fuesil Adduses			· · · · · · · · · · · · · · · · · · ·
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	iia.com	
d.	Volume of waste shipped to p		allity in the province			
u.	1,549	cu vd gal	☐ Ib ☐ ton			
	1,043			(clieck one)		
		1992 TELEVISION CONTROL - PERSONAL PROPERTY CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CONTROL - CO	ICIAL USE			
a.	Has the waste been approved	for beneficial use?			☐ Yes	⊠ No
	If "Yes", list the general perm	it number or approval nu	mber.			
b.	Volume of waste beneficially	used in the previous year				· · · · · · · · · · · · · · · · · · ·
	0 📋	cu yd 🔲 gal	☐ lb ☐ ton	(check one)		

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		3. Process Description				
a.	A detailed description of the waste, as specified in t			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct		control processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the informati a confidentiality claim, as			on for	☐ No	⊠ N/A
	SEC.	TION C. MANAGEN	MENT OF RESIDU	JAL WASTE		
2.2		1. PROCESSING OF	R DISPOSAL FACILITY(I	ES)		100000000000000000000000000000000000000
The ar	ea below (ad.) will accomm				if necessary	<i>1</i> .
a.	Solid waste permit number 100361	r(s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	McKean County Lar	ndfill			
	Address Line 1	19 Ness Lane				
	Address Line 1					
	Address City State ZIP	Kane	PA	16735		
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name	Mike Manderfeld				
	Title					
:	Phone	(814) 778-9931	Email Address	manderfeld@gm	ıail.com	
d.	Volume of waste shipped t 151	cu yd gal	☐ lb 🛛 tor	n (check one)	)	
d. a.		cu yd gal	☐ lb 🛛 tor	n (check one)	)	
	Solid waste permit number 8-0728-00004 Facility Name	cu yd gal (s) for processing or disp	☐ lb ☒ tor	n (check one)	)	
а.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1	cu yd gal	☐ lb ☒ tor	n (check one)	)	
а.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1	cu yd gal (s) for processing or disp Chemung County La 1690 Lake Street	☐ lb ☑ tor posal facility being util	n (check one)	)	
а.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira	□ lb ⊠ tor posal facility being util andfill NY	n (check one)	)	
а.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP Municipality	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira	☐ lb ☑ tor posal facility being util	n (check one)		
а.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar	□ lb ☑ tor  posal facility being util  andfill  NY  County	n (check one)		
a. b.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana	□ lb ☑ tor  posal facility being util  andfill  NY  County	n (check one) lized. 14903 Chemung		
a. b.	Solid waste permit number 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585) 797-5941	□ lb ☑ tor  posal facility being util  andfill  NY  County  ager  Email Address	n (check one) lized.  14903 Chemung  carla.canjar@car		
a. b.	Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585) 797-5941  o processing or disposal cu yd gal	□ Ib ☑ tor  posal facility being util  andfill  NY County  ager Email Address  facility in the previous □ Ib ☑ tor	14903 Chemung carla.canjar@cas	sella.com	
a. b.	Solid waste permit number 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 133	cu yd gal (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585) 797-5941  o processing or disposal cu yd gal	□ Ib ☑ tor  posal facility being util  andfill  NY County  ager Email Address  facility in the previous □ Ib ☑ tor	14903 Chemung carla.canjar@cas	sella.com	
a. b.	Solid waste permit number 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to	Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585) 797-5941  processing or disposal cu yd gal  2: Ben red for beneficial use?	□ Ib ☑ tor  posal facility being util  andfill  NY County  ager Email Address facility in the previous □ Ib ☑ tor	14903 Chemung carla.canjar@cas	sella.com	No No
a. b. c.	Solid waste permit number 8-0728-00004  Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality  Facility Contact Name Title Phone  Volume of waste shipped to 133  Has the waste been approve	cu yd gal  (s) for processing or disp  Chemung County La 1690 Lake Street  Elmira Elmira Carla Canjar Environmental Mana (585) 797-5941  o processing or disposal cu yd gal  red for beneficial use? rmit number or approval	□ Ib ☑ tor  posal facility being util  andfill  NY County  ager Email Address  facility in the previous □ Ib ☑ tor  IEFICIAL USE	14903 Chemung  carla.canjar@cass year. n (check one)	sella.com	

#### SECTION D. CERTIFICATION I certify, under penalty of law, that I have personally examined and am familiar with the information submitted in this Annual Report and all attached documents and that based upon my inquiry of those individuals immediately responsible for obtaining the information, I verify that the submitted information is true, accurate and complete to the best of my knowledge. I understand that the submission of false information herein is made subject to the penalties of 18 Pa. C.S. §4904, relating to unsworn falsification to authorities, which include fine and imprisonment. Check the following, if applicable: I certify the information required in Section B-1, General Properties was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the information required in Section B-2, Chemical Analysis was supplied to the Department for the year and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** I certify the Information required in Section B-3, Process Description and Schematic, was supplied to the Department for the year ____ and has not changed. Form Submitted: Form 26R Other (specify) **Date Submitted:** Name of Responsible Official Title Environmental Specialist Dina Brown Date Signature

## Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10084198

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc. ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

**TEST REPORT** 

WO#:

10084198

PAGE:

1 of 1

PO#:

AF 76907

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

01-003

RECEIVED FOR LAB BY: DLM2	DATE	E: 08/24/2010 15:10			Pa	age 1 of 1
SAMPLE: Inv. Cuttings & Gypsum B SAMPLED BY: SG		Lab ID: 10084198-001A	Grab			
<u>Test</u> Total Petroleum Hydrocarbons Sample Note: Analysis performed t	<u>Result</u> 4800 mg/Kg by Microbac- Erie	Method EPA 9071	Reg Limit	<u>Analysis Start</u> 08/30/10 10:40	<u>Analysis End</u> 08/30/10	Analyst *
SAMPLE: Inv. Cuttings & Gypsum B SAMPLED BY: SG		Lab ID: 10084198-001B	Grab Reg	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		·
<u>Test</u> Moisture Free Liquid pH	Result 42.6 % < 0.1 % 6.29@20.0°C	<u>Method</u> Moisture Calc. EPA 9095A EPA 9045C	Limit	Analysis Start 08/26/10 14:30 08/25/10 14:30 08/26/10 16:50	Analysis End 08/27/10 08/25/10 08/26/10	Analyst * IC-SA IC-SA SG-SA
SAMPLE: TCLP Leachate of Inv. Cut Biomatrix SAMPLED BY: SG		Lab ID: 10084198-001D	Grab			
Test  Mercury - TCLP extracted  Arsenic - TCLP extracted  Barium - TCLP extracted  Cadmium - TCLP extracted  Chromium - TCLP extracted  Copper - TCLP extracted  Lead - TCLP extracted  Nickel - TCLP extracted  Selenium - TCLP extracted	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.500 mg/L < 0.100 mg/L < 0.100 mg/L < 0.100 mg/L < 0.100 mg/L	Method EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	Reg Limit 0.2 5 100 1 5 5	Analysis Start 08/25/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30 08/26/10 10:30	Analysis End 08/27/10 08/26/10 08/26/10 08/26/10 08/26/10 08/26/10 08/26/10 08/26/10 08/26/10	Analyst * KW-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV RMD-CV
Zinc - TCLP extracted	8.59 mg/L	EPA 6010B	5	08/26/10 10:30	08/26/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	anie	M. Davis	D/	ATE:	8/31/2010
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# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081725

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081725

PAGE:

1 of 2

PO#:

AF76907

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

RECEIVED FOR LAB BY: DLM2

DATE: 08/10/2010 15:33

**TEST REPORT** 

Page 1 of 2

RECEIVED FOR LAB BY: DLM2	DATE:	08/10/2010 15:33			Pa	age 1 of 2
SAMPLE: Air Cuttings		ab ID: 10081725-001A	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:00	SLOQ			
<u>Test</u>	Result	Method	<u> </u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	491 mg/Kg	EPA 9071		08/12/10 11:10	08/12/10	
Sample Note: Analysis performed	l by Microbac-Erie					
SAMPLE: Air Cuttings	L	ab ID: 10081725-001B	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:00				
Took	Decult	Method	<u>SLOQ</u>	Analysis Start	Analysia End	Analyst *
<u>Test</u> Moisture	<u>Result</u> 40.6 %	Moisture Calc.	0.01	08/12/10 8:45	Analysis End 08/13/10	Analyst * MED-SA
Free Liquid	< 0.1 %	EPA 9095A	0.01	08/12/10 0:43	08/12/10	RHN-SA
pH	12.07@21.6°C	EPA 9045C	0.1	08/12/10 15:42	08/12/10	MED-SA
pi i				00/12/10 13.42		WED-SA
SAMPLE: Air Cuttings	_	ab ID: 10081725-001C	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:00	SLOQ			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Sodium	331 mg/Kg-dry	EPA 6010B	230	08/13/10 9:40	08/13/10	RMD-CV
Chloride	1550 mg/Kg-dry	EPA 300.0	84.2	08/11/10 14:31	08/12/10	HDP-CV
Percent Moisture	40.6 %	SM2540G		08/12/10 8:45	08/13/10	MED-SA
SAMPLE: TCLP Leachate of Air Cu	ttings L:	ab ID: 10081725-001E	Grab			
SAMPLED BY: SG	Sample	Time: 08/09/2010 15:00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	08/12/10 8:30	08/13/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	08/13/10 7:20	08/13/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Leau - I OLI EXIIACIEU	- 0.000 Hig/L	E17(0010D	0.000	55/15/10 / .20	00/10/10	I VIVID-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Charie	M Davis	DATE	8/13/2010
W (10 (OE)	unu	101.		

# Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10081725

Phone: (570) 888-0169 Fax: (570) 888-0717

SEND DATA TO:

NAME:

Steve Gridley

ADDRESS:

COMPANY: Talisman Energy USA, Inc. 337 Daniel Zenker Dr

Horseheads, NY 14845

WO#:

10081725

PAGE:

2 of 2

PO#:

AF76907

PHONE:

(607) 562-4000

**TEST REPORT** 

PWS ID#

FAX: (607) 562-4001

RECEIVED FOR LAB BY: DLM2	DATE:	08/10/2010 15:33			F	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	08/13/10 7:20	08/13/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	08/13/10 7:20	08/13/10	RMD-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	08/13/10 7:20	08/13/10	RMD-CV

#### **REMARKS:**

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Carrie M. Davis	DATE:	8/13/2010

## PRODUCED WATER APRIL 19 - MAY 12

Gallons per well total April 19 - May 12

Sum of Water Produced in G		7.32
Pad Name	Well Name	Total
264	EAST RES ALLEN 264 1H	
7264 Total		
(03-015)	TEUSA (03-015-01) J 1H	23,773
	TEUSA (03-015-02) J 2H	14,764
	TEUSA (03-015-03) J 3H	15,521
	TEUSA (03-015-04) J 4H	20,933
(03-015) Total		74,991
(03-009)	FEW (03-009-05) L 5H	35,194
	FEI (03-009-06) L 6H	40,680
	FEI (03-009-07) L 7H	34,613
	FEI (03-009-08) L 8H	51,096
, (03-009) Total		161,584
(01-025/070)	FEI B 1H (01-025-01) - API 37-015-	1,519
	FEI B 2H (01-025-02) - API 37-015-	3,864
	FEI B 3H (01-070-01) - API 37-015-	3,525
	FEI B 4H (01-070-02) - API 37-015-	946
(01-025/070) Total		9,853
(01-047)	FEI (01-047-01) J 1H	17,902
	FEI (01-047-02) J 2H	16,593
	FEI (01-047-03) J 3H	27,694
	FEI (01-047-04) J 4H	12,035
	FEI (01-047-05) J 5H	10,532
	FEI (01-047-06) J 6H	13,032
(01-047) Total		97,788
(01-005/008)	FEI (01-005-01) R1H - API 37-015-2	12,396
	FEI (01-005-02) R3H - API 37-015-2	15,821
	FE (01-008-01) R2H - API 37-015-2	12,594
(01-005/008) Total		40,611
DCNR 587 (02-001) PAD	DCNR 587 (02-001-04)	14,235
	DCNR 587 (02-001-05)	6,103
	DCNR 587 (02-001-06)	19,461
DCNR 587 (02-001) PAD To	tal	39,799
DCNR 587 (02-002) PAD	DCNR 587 (02-002-01)	3,932
	DCNR 587 (02-002-02)	2,909
	DCNR 587 (02-002-03)	2,393
	DCNR 587 (02-002-04)	3,652
DCNR 587 (02-002) PAD To		12,886
DCNR 587 (02-004) PAD	DCNR 587 (02-004-02)	25,434
	DCNR 587 (02-004-06)	37,492
OCNR 587 (02-004) PAD To	tal	62,925
OCNR 587 (02-008)	FEI DONR 587 (02-008-03) 3H	20,026
	FEI DCNR 587 (02-008-04) 4H	18,602
	FEI DCNR 587 (02-008-05) 5H	16,830
	FEI DCNR 587 (02-008-06) 6H	23,416
DCNR 587 (02-008) Total		78,874
DCNR 587 (02-009) PAD	FEI DCNR 587 (02-009-01)	8,286
CAN SERVICE STREET	FEI DCNR 587 (02-009-02)	5,299

DCNR 587 (02-009) PAD	FEI DCNR 587 (02-009-03) FEI DCNR 587 (02-009-04) FEI DCNR 587 (02-009-05)	5,90° 4,17° 5,50°
	FEI DCNR 587 (02-009-06)	9,512
DCNR 587 (02-009) PAD To		38,67
DCNR 587 (02-013)	TEUSA DONR 587 (02-013-01) 1H	31,29
	TEUSA DONR 587 (02-013-02) 2H	31,20
	TEUSA DONR 587 (02-013-03) 3H	30,78
DOND FOT (00 040) T-4-1	TEUSA DCNR 587 (02-013-04) 4H	30,82
DCNR 587 (02-013) Total	TELION DONID COT (AC SAL OL) ALL	124,11
DCNR 587 (02-014)	TEUSA DONR 587 (02-014-01) 1H TEUSA DONR 587 (02-014-02) 2H	67,950 61,950
	TEUSA DCNR 587 (02-014-02) 2H	163,25
DCNR 587 (02-014) Total	[1E00A DONA 307 (02-014-03) 3H	293,18
DCNR 587 (02-017) PAD	DCNR 587 (02-017-01)	8,27
DONK 567 (02-017) FAD	DCNR 587 (02-017-02)	5,35
	DCNR 587 (02-017-03)	9,35
	DCNR 587 (02-017-04)	15,74
DCNR 587 (02-017) PAD Tot		38,73
DCNR 587 (02-018) PAD	FEI DCNR 587 (02-018-01) 1H	13,78
DOING 307 (02-018) FAD	FEI DONR 587 (02-018-02) 2H	17,75
	FEI DCNR 587 (02-018-03) 3H	6,12
	FEI DCNR 587 (02-018-04) 4H	15,87
	FEI DCNR 587 (02-018-05) 5H	9,03
	FEI DCNR 587 (02-018-06) 6H	6,14
DCNR 587 (02-018) PAD Tot		68.71
(03-013)	FEI (03-013-01) W 1H	1,94
(00-010)	FEI (03-013-02) W 2H	11,57
	FEI (03-013-03) W 3H	14,44
	FEI (03-013-04) W 4H	14,81
	FEI (03-013-05) W 5H	13,78
	FEI (03-013-08) W 6H	3,18
	FEI (03-013-07) W 7H	20,38
	FEI (03-013-08) W 8H	23,29
(03-013) Total		103,41
R (03-045)	TEUSA (03-045-01) J 1H	50.75
	TEUSA (03-045-02) J 2H	31,92
R (03-045) Total		82,68
(01-003)	FEI 1H (01-003-01) - API 37-015-	-
(01-003) Total		
(01-071)	TEUSA (01-071-01) D 1H	31,55
	TEUSA (01-071-02) D 2H	44,20
	TEUSA (01-071-03) D 3H	44,04
(01-071) Total		119,80
(01-004)	FEI (01-004-01) M1H - API 37-015-	6,65
	FEI (01-004-03) M 5H - API 37-015	4,54
	FEI M 3H (01-004-02) - API 37-015	4,77
(01-004) Total		15,97
(01-012)	FEI (01-012-01) A1H - API 37-015-	15,90
	FEI (01-012-02) A2H - API 37-015-	12,19
(01-012) Total		28,10
10.0.00	HOLDINGS (01-036-01) 1H	28,97

HOLDING (01-036)	FEI ME	HOLDINGS (01-036-02) 2H	36,293
	FEI I	HOLDINGS (01-036-03) 3H	44,181
	FEI H	HOLDINGS (01-036-04) 4H	35,451
HOLDING (01-036)	Total		144,900
(01-017)	FEIF	(01-017-05) G 5H	11,618
	FEI	(01-017-06) G 6H	9,473
	PEI	(01-017-07) G 7H	10,008
	FEI	(01-017-08) G 8H	15,269
(01-017) Total	Part - 1		46,365
257	EAST RES	267 1H	8,134
267 Total	Tevas bea	0.004.411	8,134
261	EAST RES		5,822
	EAST RES	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	881 524
	EAST RES		2,966
	EAST RES		2,285
	EAST RES	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	1,530
261 Total	IPUA I VEB	7401 011	14,007
(01-014)	FEI	(01-014-02) R 2H	23,424
	FEI	(01-014-03) R 3H	21,193
	The second second	(01-014-04) R 4H	17,314
(01-014) Total			61,931
(01-014)	FEI	(01-014-01) R 1H	18,568
L(01-014) Total			18,586
7 271	EAST RES	271 1H	
271 Total			
(01-024)	FEI	(01-024-03) L 8H - API 37-01	18.721
	FEI	(01-024-04) L 9H - API 37-01	15,478
(01-024) Total	Teles of the last	Para Service Land	34,196
(01-044)	FEI	(01-044-01) L 1H	8,951
704 040 Tabl	FEI	(01-044-02) L 2H	11,142
(01-044) Total (03-008)	PEI	(03-008-01) G 1H	20,093
(03-008)	FEIL	(03-008-02) G 2H	36,794
	FEI	(03-008-03) G 3H	40,850
	FEI	(03-008-04) G 4H	55,562
	FEI	(03-008-05) G 5H	56,707
	FEI	(03-008-06) G 6H	3,914
	PEL	(03-008-07) G 7H	41,393
	FEI	(03-008-08) G 8H	62,878
R (03-008) Total			324,537
(01-001)	FEI	01-001-02) T1V - API 37-015-20	
(01-001) Total			
(01-007)	FEI	01-007-01) T2H - API 37-015-20	5,313
(01-007) Total			5,313
(01-015)		01-015-01) T 3H	18,170
2000		01-015-02) T 4H	16,739
	FEIL	01-015-03) T 5H	19,670
(01-015) Total			54,579
(01-074)	TEUSA	(01-074-01) W 1H	91,812
	TEUSA	(01-074-02) W 2H	89,502 107,100
	CONTRACTOR AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	01-074-03) W 3H	1 107 100

J (01-074)	TEUSA MOR	RGAN (01-074-04) W 4H	110,544
(01-074) Total	11.000		398,958
(01-006)	TEUSA	(01-006-01) J 1H	6,398
(0, 400)	TEUSA	(01-006-02) J 2H	7,760
	TEUSA	(01-006-03) J 3H	7,700
	TEUSA	(01-008-04) J 4H	7,984
(01-006) Total	TIEDON	(01-000-04) 5 4/1	22,121
(01-076)	FEI	(01-076-01) L 7H	34,535
(01-070)	FEI	(01-076-02) L 8H	24,821
	FEI		
	FEI	(01-076-03) L 9H	26,804
		(01-076-04) L 10H	36,747
	<b>序程</b>	(01-076-05) L 11H	49,176
	FEI	(61-076-08) L 12H	47,082
	FEI	(01-076-07) L 13H	57,126
(01-076) Total	-		284,285
(01-077)	FEI	(01-077-01) L 1H	33,510
	FEI	(01-077-02) L 2H	36,511
	FEI	(01-077-04) L 4H	30,171
	FEI	(01-077-05) L 5H	20,568
	FEI	(01-077-06) L 6H	22,961
(01-077) Total			143,721
	EAST RES	31	
1 Total			
T 259	EAST RES	259 1H	5,045
	EAST RES	259 2H	59,290
	EAST RES	259 3⊣	61,722
	EAST RES	259 4H	3,182
	EAST RES	259 5H	21,187
	EAST RES	259 6H	
7 259 Total	4-44-4		150,426
(01-026/027)	FEI	(01-027-01) D 3H - API 37-01	12,721
	FEI	D 1H (01-026-01) - API 37-01	10,991
	FEI	D 2H (01-026-02) - API 37-01	10,330
(01-026/027) Total			34,042
(01-043/013)	FEI	D 4H (01-043-01) - API 37-01	6,528
	FEI	D 5H (01-043-02) - API 37-01	5,105
	FEI	D 6H (01-013-01) - API 37-01	4,852
	FEI	D 7H (01-013-02) - API 37-01	4,485
	FEI	D 8H (01-013-03) - API 37-01	5,916
Ca Source	FEI	D 9H (01-043-03) - API 37-01	4,316
(01-043/013) Tota		5 di (61-0-0-05) 7 AFT 37-01	31,202
269	EAST RES	269 1H	31,206
269 Total	JENOT MED	1200 111	
(01-001)	FEI.	(01-001-01) FT1H - API 37-015	6,144
(01-001) Total	111212	(01-001-01)1 1111- Al 1 07-010	8,144
(01-002)	FEI T	(01-002-01) FT2H - API 37-015	8,269
(01-002) Total	LEI .	(VI-002-01) F12H - MF1 37-019	8,269
The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa	Ice	701 038 01) ET 2U	the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa
(01-038)	FEI	(01-038-01) FT 3H	2,841
	FEI	(01-038-02) FT 4H	3,083
	FEI	(01-038-03) FT 5H	3,800
	FEI	(01-038-05) FT 7H	3,607

TWL ASSOCIATES (01-016)	FEI TWL AS	SOCIATES 1H (01-016-01)	21,89
		SOCIATES 2H (01-016-02)	15,34
		SOCIATES 3H (01-016-03)	12,92
		SOCIATES 4H (01-016-04)	15,15
TWL ASSOCIATES (01-016)			65,31
M (03-004)	FEI	(03-004-01) R 1H	14,61
	FEI	(03-004-02) R 2H	13,58
	FEI	(03-604-03) R 3H	13,85
	LEI /	(03-004-04) R 4H	18,65
	PEI	(03-004-05) R 5H	17,35
M (03-004) Tota			78,08
(03-054)	TEUSA	(03-054-01) J 1H	
	TEUSA	(03-054-02) J 2H	
	TEUSA	(63-054-03) J 3H	
	TEUSA	(03-054-04) J 4H	
1 (03-054) Total			
/268	EAST RES	268 1H	25,30
268 Total			25,30
262	EAST RES	/ 262 1 H	-
262 Total			
(01-041/042)	FEI	(01-041-01) R 1H - API 37-0	8,04
	FEI	(01-041-02) R 3H - API 37-0	8,16
	FEI	(01-041-03) R 6H - API 37-0	8,92
	PEI	(01-042-01) R 2H - API 37-0	8,97
	FEI	(01-642-02) R 4H - API 37-0	8,05
	FEI	(01-042-03) R 6H - API 37-0	8,53
(01-041/042) Total			50,71
(03-001)	TEUSA	(03-001-01) E 1H	33,26
	TEUSA	(03-001-02) E 2H	12,26
	TEUSA	(03-001-03) E 3H	34,18
	TEUSA	(03-001-04) E 4H	28,72
(03-001) Total	1.20		108,44
(blank)	(blank)		-
(blank) Total	Jerry Je :		
L(03-014) J PAD	TEUSA	(03-014-04) J 4H	28,98
(03-014) J PAD Te	otal		28,98
Grand Total			3,654,59

Event date. Location	State	Material released	Volume:	Environmental media
2009 04 15   Appalachia	US-PA	Oil based drilling fluids	0.10	Land
2009 04 22   Appalachia	US-PA	Stormwater	1.91	Land
2009 06 10	US-PA	Flowback / Completions Fluids Water	0.01	Land
2009 06 30 Appalachia	US-PA	Other - Chemical Product or Mixture	1.15	Land
2009 07 30 Mountain Ridge Road	US-PA	Hydraulic Fluids	0.0190	Land
2009 08 17 Appalachia	US-PA	Oil based drilling fluids	0.1190	Land
2009 08 17	US-PA	Produced Water	0.0314	Land
2009 08 23  Appalachia	US-PA	Produced Water	3.18	Land
2009 09 22 Appalachia	US-PA	Rig wash water (surfactant and residual oil based drilling fluid)	2.38	Land
2009 10 16   Appalachia	US-PA	Produced Water	0.2840	Land
2009 10 26	US-PA	Produced Water	0.0190	Land
2009 11 12  Appalachia	US-PA	Flowback / Completions Fluids Water	0.0020	Land
2009 11 12   Appalachia	US-PA	Flowback / Completions Fluids Water	0.7950	Land
2009 11 21 AH	US-PA	Flowback / Completions Fluids Water	0.03	Land
2009 11 22  Appalachia	US-PA	Oil based drilling fluids	1.19	Land
2009 11 26   Stateland	US-PA	Flowback / Completions Fluids Water	4.77	Land
2009 12 07   Appalachia	US-PA	Oil based drilling fluids	0.06	Land
	US-PA	Oil based drilling fluids	4.77	
2009 12 08		Produced Water		Land
2009 12 29 Appalachia	US-PA	Anti-freeze	0.01	Land
2010 01 01 Marcellus	US-PA	Oil based drilling fluids	0.20	Land
2010 01 10 03-013-01 W 1H	US-PA	Oil based drilling fluids	0.18	Land
2010 01 11 (01-013-03) D8H	US-PA	Flowback / Completions Fluids Water	0.0002	Land
2010 01 12 y (01-006-03) J3H	US-PA	Diesel Füel	0.132480	Land
2010 01 12 (01-006-03) J3H	US-PA	Diesel Fuel	0.132480	Land/Pooled rainwater on-site
2010 01 16 DCNR 587 02-002-01	US-PA	Oil based drilling fluids	0.3028	Land
2010 01 21 h R 4H	US-PA	Lubricating Oil	0.0038	Land
2010 01 23 01-042-01 R2H	US-PA	Oil based drilling fluids	0.4770	Land
2010 01 27 L6H - L9H (In L6H in Wellview)	US-PA	Oil based drilling fluids	0.0189	Land
2010 02 04   DCNR 587 (02-017-03)	US-PA	Oil based drilling fluids	1.59	Land
2010 02 22 h (01-077-06) L 6H	IUS-PA	Diesel Fuel	0.01	Land
2010 02 22 DCNR 587 (02-002-03)	US-PA	Oil based drilling fluids	0.09	iLand
2010 02 23 ns (01-042-02) R 4H	IUS-PA	Hydraulic Fluids	10.04	Land
2010 02 24 Wheeler-Jackson Township	US-PA	Diesel Fuel	0.11	Land
2010 02 26 h (01-077-01) L 1H	US-PA	Hydraulic Fluids	0.0160	Land
2010 03 06   Marcellus Field Area	US-PA	Oil based drilling fluids	0.05	Land
2010 03 08   Putnam (01-077-05)L 5H	US-PA	Diesel Fuel	0.80	Land/Wetland
2010 03 08.   FEI (01-077-05) L 5H	US-PA	Air drill cuttings	17.24	Land
2010 03 09   Marcellus Field Area	US-PA	Hydraulic Oil	0.0080	Land
2010 03 05   Marcends Field Area 2010 03 16   FEI   Marcends Field Area 2010 03 16   FEI   Marcends Field Area 2010 05 05   R 5H - Pioneer 59	US-PA	Diesel Fuel	0.0750	Land
2010 03 16 FEI (03-004-05) R 5H - Pioneer 59	US-PA	Oil based drilling fluids	0.06	Land
2010 03 16 FET (03-004-05) R SH - Ploneer 59	US-PA	Oil based drilling fluids	0.02	Land
2010 03 20 Appalachia ( TT 1 Pad)	US-PA	Flowback / Completions Fluids Water	1.60	Land
2010 03 21 DCNR 587 (02-002-04)	US-PA	Oil based drilling fluids	1.30	Land
2010 03 25 Appalachia - Thomas (01-038-05) FT 7H (Rig 207)	US-PA	Oil based drilling fluids	0.02	Land
2010 03 27 (01-024-04) R 5H	US-PA	Produced Water	0.02	Land
2010 03 29 B Train #1	US-PA	Lubricating Oil	0.04	Land
2010 04 04   Appalachia - Williams (01-041-01)R 1H	US-PA	Produced Water	0.30	Land

2010 04 08	Cease #3	US-PA	Produced Water	0.0080	Land
2010 04 13		US-PA	Oil based drilling fluids	0.0750	Land
2010 04 13		US-PA	Oil based drilling fluids	0.0160	Land
2010 04 14	Appalachia - DCNR 587 (02-004-02)	US-PA	Produced Water	0.16	Land
2010 04 18	Appalachia - Eick (03-013-06) W 6H	US-PA	Hydraulic Fluids	0.0050	Land
2010 05 02	(03-015-02) J 2H (Dallas Morris 16)	US-PA	Hydraulic Fluids	0.0190	Land
2010 05 06	er (03-008-08) G 8H (Saxon 171)	US-PA	Oil based drilling fluids	0.06	Land
2010 05 06	DCNR 587 (02-017-04)	US-PA	Fracwater	0.80	Land
2010 05 11	DCNR 587 (02-018-02) (Patterson 56)	US-PA	Oil based drilling fluids	0.05	Land
2010 05 13	(01-041-01) R 1H	US-PA	Hydraulic Fluids	0.0030	Land
2010 05 24	DCNR 587 (02-017-04) (Cudd)	US-PA	Flowback / Completions Fluids Water	0.08	Land
2010 05 25	TWL Associates (01-016-01) 1H	US-PA	Cement with residual oil based drilling fluid	0.07	Land
		US-PA	Hydraulic Fluids	0.04	Land
2010 06 03	£ (03-009)	US-PA	Diesel Fuel	0.0020	Land
2010 06 03		US-PA	Oil based drilling fluids	0.0150	Land
2010 07 04	(01-003-01) J 1H	US-PA	Produced Water	0.0190	Land
2010 07 13		US-PA	Oil based drilling fluids	12	Land
2010 08 03	Fallbrook Road	US-PA	Hydraulic Fluids	0.0080	Land
2010 08 06		US-PA	Natural gas	0.003790	Air
2010 08 13	Besley Road, Columbia Township	US-PA	Anti-freeze	0.0040	Land
2010 08 20	Bradford County, Troy PA 3 1/2 miles East of route 14	US-PA	Diesel Fuel	0.0950	Land
2010 08 22	03-013-05 W5H	US-PA	Lubricating Oil	0.0080	Land
2010 09 01	(03-001-02) E 2H	US-PA	Oil based drilling fluids	0.007570	Land
2010 09 02	M Wellsite WL 142157	US-PA	Produced water	0.011350	Land
2010 09 09	DCNR 587 (02-008-04)	US-PA	Diesel Fuel	0.19	Land
2010 09 20	(01-077-01) L 1H	US-PA	Fracwater	0.07	Land
2010 09 20	DCNR 587 (02-018)	US-PA	Produced water	0.01	Land
2010 09 23	DCNR 587 (02-013-02)	US-PA	Lubricating Oil	0.0010	Land
2010 09 23	(01-026-01) D 1	US-PA	Produced water	0.0114	Land
2010 09 27	01-074-02 W2H	US-PA	Oil based drilling fluids	0.0379	Land
2010 10 05	01-074-02 W2H	US-PA	Drill cuttings and fresh water based drilling fluid	1.91	Land
2010 10 06	Harvest Holdings 01-036-04 4H	US-PA	Diesel Fuel	0.0189	Land
2010 10 08	(01-076-07) L 13H - Saxon 170	US-PA	Spray paint	0.0010	Land
2010 10 12	(03-067-02) O 2H	US-PA	Oil based drilling fluids	0.015140	Land
2010 10 14		US-PA	Produced Water	0.0114	ILand
2010 10 21	Mountain Ridge meter station	US-PA	Methane gas	0.0010	Air
2010 10 23	DCNR 5-587-02-005-03	US-PA	Diesel Fuel	0.08	Land
2010 10 27	Harvest Holdings (01-036-04) 4H	US-PA	Anti-freeze	0.0018	Land
2010 10 28	DCNR 587 Statelands Compressor Station Train #2	US-PA	Glycol	0.0757	Land
2010 11 29	05-005-01 K1H Saxon Rig 173	US-PA	Oil based drilling fluids	0.0340	Land
2010 12 08	h (01-076)	US-PA	Fracwater	6.06	Land
2010 12 14	705-005-01) K 1H - Saxon 173	US-PA	Diesel Fuel	0.0080	Land
2010 12 17	4H - Saxon 172	US-PA	Anti-freeze	0.0010	Land
2010 12 18	Castle pad	US-PA	Produced water	0.0080	Land
2010 12 20	ad	US-PA	Diesel Fuel	0.0080	Land
2010 12 20	(01-075-04) L4H - PD329	US-PA	Hydraulic Fluids	0.007570	Land
2010 12 29	1DCNR 587 (02-005-04) - Patterson 56	US-PA	Hydraulic Fluids	0.0040	Land
	DCNR 587 (02-005-05) - Patterson 56	US-PA	Oil based drilling fluids	0.0110	Land
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	-	

2011 01 06 (03-008)	US-PA	Anti-freeze	0.009460	Land
2011 01 10 (03-008)	US-PA	Flowback / Completions Fluids Water	0.2380	Land
2011 01 16 (03-008)	US-PA	Flowback / Completions Fluids Water	9.54	Land
2011 01 17 am (01-076) - 3637 Fallbrook Road	US-PA	Flowback / Completions Fluids Water	7.95	Land
2011 01 17   DCNR 587-02-008-05	US-PA	Flowback / Completions Fluids Water	0.16	Land
2011 01 18   Noble Pad - Precision 228	US-PA	Anti-freeze	0.0189	Land
2011 01 22   Harvest Holdings (01-036)	US-PA	Flowback / Completions Fluids Water	0.4770	Land
2011 01 24 FEI Longenecker (03-008)	US-PA	Flowback / Completions Fluids Water	0.7950	Land
2011 01 25 #1 wellsite	US-PA	Produced water	8.33	Land
2011 02 02 (03-46-08) B 8H - Saxon 171	US-PA	Hydraulic Fluids	0.003790	Land
2011 02 06 (03-029-01) S 1H	US-PA	Water based drilling fluid	0.1590	Land
2011 02 12 GIV	US-PA	Cement spacer fluid (barite, solvent and other additives)	0.4770	Land
2011 02 14 h 01-076	US-PA	Ariti-freeze	0.001890	Land
2011 02 15 Bates Pipeline	US-PA	Diesel Fuel	0.001890	Land
2011 02 17 DCNR 587-02-006-04 - Pioneer 64	US-PA	Solid barite	0.0283	Land
2011 02 18 Thomas Compressor Station	US-PA	Lubricating Oil	0.0001	Land
2011 03 06 (05 034 01) H1H	US-PA	Oil based drilling fluids	1.11	Land
2011 03 08 DCNR-587-(02-006-01) - Pioneer 64	US-PA	Diesel Fuel	0.0946	Land
2011 03 10 DCNR 587 02-005-06	US-PA	Stormwater	0.0001	Land
2011 03 11 DCNR 587 02-005-06	US-PA	Hydraulic Fluids	0.007570	Land
2011 03 15 (01-076)	US-PA	Flowback / Completions Fluids Water	7.95	Land
2011 03 18 Statelands Compressor Station	US-PA	Lubricating Oil	0.0040	Land
2011 03 28 ;DCNR 587 (02-001) Pad 1	US-PA	Diesel Fuel	0.0020	Land
2011 03 29 r to Pipeline	US-PA	Pipeline boring mud (bentonite and water)	0.0010	Land/Wetland
2011 04 10   Ironmine Rd. Columbia Township, PA	US-PA	Pipeline boring mud (bentonite and water)	0.0379	Land
2011 04 12 Pad	US-PA	Sewage	0.011	Land
2011 04 13   Shedden Meter Station	US-PA	Produced water	1.59	Land
2011 04 21 to er Pipeline	US-PA	Pipeline boring mud (bentonite and water)	0.3790	Land
2011 05 05	US-PA	Produced water	0.0080	Land
2011 05 08	US-PA	Hydraulic Fluids	0.0040	Land/Pooled rainwater on-site