

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 leg each attack	nust be fully and accurate ibly printed in the spaces led sheet as Form 26R, re the date on attached sheets	provided. If additional sp eference the item numb	ace is necessary, identi- er and identify the da	fy Date Receiv	USE ONLY red & General Notes
General Re	erence 287.54				
Date Prepar	ed/Revised Febr	ruary 11, 2011			
	SECTION A.	CLIENT (GENERATOR	OF THE WASTE) IN	FORMATION	
Company N	ame				
	nergy USA Inc.				
	ary, Name of Parent Compa	iny			Generator ID#
Talisman E				N/A	
50 Pennwo	ailing Address Line 1 od Place	C	ompany Mailing Addres	s Line 2	
	ddress Last Line - City	State	Zip+4	Phone	Ext
Warrendale		PA	15086	(724) 814-53	
CONTRACTOR STATE OF THE PARTY O	ontact Last Name	First Name	MI	Suff	ix
Brown Municipality		Dina	County		
Warrendale			Allegheny		
Contact Ph		Contact Email Address	Allegiterry		
(724) 814-5	C1026	dybrown@talismanusa.d	com		
If 'No', desc the (0	generated at the Company ribe location of waste gene 5-005) well pad site located a	eration and storage. Drill o	cuttings are generated dur		
containers of Municipality		County Bradfo	ord	State	PA
		SECTION B. WAST	E DESCRIPTION		
Residual	Residu	al Waste		Unit of	Time
Waste Code	Code De	escription	Amount	Measure	Frame
810	Drill cuttings (oil and ga	as)	996	」cu yd □ gal □ lb □ ton	One Time
		1. GENERAL P	ROPERTIES		
a. pH l	Range 6.26	5 to 8.77	(based on analyses or kn	owledge)	
b. Phy	sical State	☐ Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	95)		
c. Phy	sical Appearance	Color Greyish Black		Earthy/ slight	petroleum
		Number of Solid or Liquid	d Phases of Separation	One	
		Describe each phase of s	eparation. Soil and Roc	k Fragments	
		2. CHEMICAL ANALYS	SIS ATTACHMENTS		
	results of a detailed chemi ructions, is attached.	cal characterization of the	waste, as described in	the 🖂	Yes No
	tailed description of the w	aste sampling method is	attached.		Yes No
c. The	quality assurance/quality of			Named	Yes No
	ched. results of the hazardous w	sata datamalastica la ette	ahad	152	Van 🗆 Ne
	plicable, a detailed explana	to be desired to the particular section of the property of the		☐ Yes ☐	Yes ☐ No No ☒ N/A
	of actual chemical analysis		merator knowledge in	l res	No 🛭 N/A

a.		PROCESS DESCRIPTION & SCHEMAT	IC ALLACH	MENIO		
		e manufacturing and/or pollution cont ne instructions, is attached.	rol process	ses producing	⊠ Yes	□ No
o .	A schematic of the manufa as specified in the instruct	cturing and/or pollution control proces ons, is attached.	ses produ	cing the waste,	⊠ Yes	☐ No
Э.		n submitted are confidential, the subsecribed in the instructions, is attached		for Yes	□ No	N/A
	SECT	ION C. MANAGEMENT OF F	RESIDUA	AL WASTE		
T-1	1.1.7.13.30	PROCESSING OR DISPOSAL FA				
-		odate the identification of two facilities	and the same		if necessary	
a.	Solid waste permit number 100945	(s) for processing or disposal facility t	peing utilize	ed.		
b.	Facility Name	Cumberland County Landfill				
	Address Line 1	135 Vaughn Road				
	Address Line 1					
	Address City State ZIP	Newburg PA		17240		
	Municipality		unty	Cumberland		
C.	Facility Contact Name	Dusty Hilbert				
	Title	Compliance Manager				
	Phone	(717) 729-5261 Email Ac	idress	dhilbert@iswaste	e.com	
d.	Volume of waste shipped t 21	processing or disposal facility in the cuyd gal lb	previous y	ear. (check one)).	
a.	Solid waste permit number 100361	(s) for processing or disposal facility b	eing utiliz	ed.		
	100301					
b.	Facility Name	McKean County Landfill				
b.	7.57.7	McKean County Landfill 19 Ness Lane				
b.	Facility Name					
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP	19 Ness Lane Kane PA		16735		
b.	Facility Name Address Line 1 Address Line 1	19 Ness Lane Kane PA		16735 McKean		
	Facility Name Address Line 1 Address Line 1 Address City State ZIP	19 Ness Lane Kane PA				
	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	19 Ness Lane Kane PA Sergeant Twp Co Mike Manderfeld	unty	McKean		
	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	19 Ness Lane Kane PA Sergeant Twp Co	unty		ail.com	
c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	19 Ness Lane Kane PA Sergeant Twp Co Mike Manderfeld	dress	McKean manderfeld@gm		
c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t	19 Ness Lane Kane PA Sergeant Twp Co Mike Manderfeld (814) 779-9931 Email Ac processing or disposal facility in the	idress previous	McKean manderfeld@gm /ear.		
c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t	19 Ness Lane Kane PA Sergeant Twp Co Mike Manderfeld (814) 779-9931 Email Ac processing or disposal facility in the cu yd gal lb 2. BENEFICIAL USE	idress previous	McKean manderfeld@gm /ear.		No No No No No No No N
b. c. d.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 205 Has the waste been approximately	19 Ness Lane Kane PA Sergeant Twp Co Mike Manderfeld (814) 779-9931 Email Ac processing or disposal facility in the cu yd gal lb 2. BENEFICIAL USE	idress previous	McKean manderfeld@gm /ear.)	No

		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENT	S
a.		ne manufacturing and/or pollution control processes p he instructions, is attached.	roducing X Yes No
b.	A schematic of the manufa as specified in the instruct	cturing and/or pollution control processes producing ions, is attached.	the waste, X Yes No
c.		on submitted are confidential, the substantiation for described in the instructions, is attached.	Yes No N/A
	SECT	TION C. MANAGEMENT OF RESIDUAL W	ASTE
		Processing or Disposal Facility(ies)	
The a		odate the identification of two facilities. Attach additi	onal sheets if necessary.
a.	Solid waste permit number 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 Steul	pen
c.	Facility Contact Name Title	Joseph Boyles	
	Phone	(607) 937-6044 Email Address joe.b (585) 466-7271	oyles@casella.com
d.	Volume of waste shipped to 407	o processing or disposal facility in the previous year. Cu yd gal lb ton	(check one)
a,	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 Alleg	any
C.	Facility Contact Name Title	Larry Shilling	
	Phone	(585) 466-7271 Email Address larry.	shilling@casella.com
			stilling@casella.com
d.	363	o processing or disposal facility in the previous year. cu yd gal lb ton	(check one)
		2. BENEFICIAL USE	
a.	Has the waste been approv	ved for beneficial use?	☐ Yes ⊠ No
		rmit number or approval number.	
b.	Volume of waste beneficial	lly used in the previous year.	

			SECTION	D. CERTIFICAT	ION
Repo obtai	ort and all attached docu	ments verify the s	and that based that the submitte ubmission of fals	upon my inquiry of ted information is truse information herein is	ar with the information submitted in this Annual those individuals immediately responsible for e, accurate and complete to the best of my s made subject to the penalties of 18 Pa. C.S. imprisonment.
Chec	k the following, if applicat	ole:			
	I certify the information		red in Section B-	8-1, 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	and the second	red in Section B	3-2, 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			, Process Description	and Schematic, was supplied to the Department
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
Nam	e of Responsible Official			Title	Environmental Specialist
Dina	Brown	0			
Sign	ature /	36	n	Date	2/25/11
1	0	0			1001

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114173

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

SEND DATA TO:

NAME:

Steve Gridley

FAX:

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

ADDRESS:

Horseheads, NY 14845

WO#:

10114173

PAGE:

1 of 2

PO#:

AF 78267

PHONE:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

05-005

RECEIVED FOR LAB BY: CMS

Total Petroleum Hydrocarbons

DATE: 11/30/2010 11:00

Composite

SAMPLE: Gel Cuttings SAMPLED BY: SG

Lab ID: 10114173-001A

Sample Time: 11/29/2010 11:30

SLOQ

Test Result

Method **EPA 9071** Analysis Start

Analysis End Analyst* 12/08/10

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

469 mg/Kg

Result

28.6 %

SAMPLE: Gel Cuttings

Test

Moisture

SAMPLED BY: SG

Lab ID: 10114173-001B Sample Time: 11/29/2010 11:30 Composite

SLOQ

Analysis Start

12/08/10 14:20

Analysis End Analyst* 12/01/10

NFM-SA

Page 1 of 2

Free Liquid pH

< 0.1 % 8.77@22.7°C **EPA 9095A EPA 9045C**

Method

EPA 6010B

EPA 300.0

Method

Moisture Calc.

0.01 11/30/10 9:40 11/30/10 14:00 0.1 11/30/10 8:00

11/30/10 11/30/10

12/01/10

IC-SA NFM-SA

HDP-CV

SAMPLE: Gel Cuttings

SAMPLED BY: SG

Test Result Sodium 640 mg/Kg Chloride 393 mg/Kg

Lab ID: 10114173-001C Sample Time: 11/29/2010 11:30

SLOQ

84.2

Composite

Analysis Start 12/01/10 9:00

11/30/10 14:49

Analysis End Analyst * 12/01/10 JRA-CV

Analysis End Analyst*

SAMPLE: TCLP Leachate of Gel Cuttings

Lab ID: 10114173-001E

49.5 Composite

SLOO

0.500

SAMPLED BY: SG

Sample Time: 12/01/2010 7:00

Result Test Mercury - TCLP extracted < 0.0008 mg/L Arsenic - TCLP extracted < 0.500 mg/L Barium - TCLP extracted

< 10.00 mg/L < 0.100 mg/L < 0.500 mg/L

Method **EPA 7470A EPA 6010B FPA 6010B**

Analysis Start 0.0008 12/01/10 12:50 0.500 12/01/10 12:30 10.00 12/01/10 12:30

12/01/10 RMD-CV 12/01/10 JRA-CV 12/01/10 JRA-CV 12/01/10

Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted

Cadmium - TCLP extracted

< 0.100 mg/L < 0.500 mg/L

EPA 6010B EPA 6010B EPA 6010B EPA 60108 0.100 12/01/10 12:30 12/01/10 12:30 0.500 0.100 12/01/10 12:30

12/01/10 12:30

JRA-CV 12/01/10 JRA-CV 12/01/10 JRA-CV 12/01/10 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

Due to matrix bias, spike recovery was outside acceptance limits

MANAGER

ani M. Davis

DATE:

12/10/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114173

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#: 10114173

PAGE: 2 of 2

PO#: AF 78267

PWS ID#

PHONE: FAX:

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

05-005 RECEIVED FOR LAB BY: CMS	DAT	E: 11/3	30/2010 11:00			P	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/01/10 12:30	12/02/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	Z	EPA 6010B	0.500	12/01/10 12:30	12/01/10	JRA-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/01/10 12:30	12/01/10	JRA-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 60108	0.200	12/01/10 12:30	12/01/10	JRA-CV

TEST REPORT

REMARKS:

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

Due to matrix bias, spike recovery was outside acceptance limits

	/1 3		A CONTRACTOR DE
MANAGER	Carrie M. Davisi	DATE:	12/10/2010
	30000		

CHAIN OF CUSTODY								PAGE 1 OF 1
Talisman / UEG								Continue and the same
geowetlands@aol.com					1	AIII	O#: 10114173	ARE SPECIAL DETECTION LIMITS NEEDED: YES /☑NO
	REFI	RIGER	TATL		A	W/\	J#. 101141/3	
	III to the beautiful		LLECT	ION		100	W DRINKING WATER SL SLUDGE NYDOH NYDEC	PADEP IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley		PD A BIG	SPORT			/ s	W GROUND WATER SO SOIL W SURFACE WATER HZ HAZARDOUS LANDFILL W WASTE WATER OTHER	YES 7NO
PH# 607-731-0145			O		1	D	E DEIONIZED WATER DI DISTILLED WATER DEDSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#			OLER		/	15	H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID	/ / 5
BILL TO: Talisman			I ICE		/	MAPO	N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE	Please fill out all applicable areas completely LAB USE ONLY
1		7	1	-/	/	100	Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE	
POF AF 78 267		/	SAME OF SAMPLING	1	18	2/3	An incomplete chain of custody may delay the	Please fill out all
OS-005	1	The Samples	SAMPS	SALLENATRIK	12	LIMIT .	An incomplete chain of custody may delay the processing of your sample(s), ANALYSISTO BE PERFORMED (PER CONTAINER)	applicable areas completely
SAMPLER SIGNATURE / AFFILIATION	1/	184	0/5	1	J'AL	APLES !	\$/	3/5/
CONTAINER SAMPLING POINT	18	12	18	100	10	PRE INTAL COMPOSIT	ANALYSISTO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely LAB USE ONLY
1 Gel Cuttings	11/69	1130	50	C	8	N	TPH	
2							pH, Chlorides, Sodium	
3							TCLP 8 RCRA Metals + Cu, Ni, Zn	新国际基础基础
4 A-TPH							Free Liquids / % Moisture	
5 B- OH Free Lia. % moist								
6 C-Anion Metals, omore	st						Perform BTEX ONLY IF the TPH	
5 B- OH, Free Lig. % moist 6 C-Anion, Metals, pmois 7 D-Total Sample							exceeds 100,000 mg/Kg	
8 E-TCLPMetals								
9							72 HOUR TURNAROUND	
10							DAY TURNAROUND	in the fall of the second
11	Section 1	19	reading to	THE RE	ac and Asses	Social bull	due 12/3/16	
LABLES CALL FOR THE STATE OF TH						- Ĉ	THE TOTAL OF THE MADE AND STREET OF THE STREET	APPRAINTED NOTES AND
	(Z. 0)	Mark Mark Holling Street		NAME OF TAXABLE PARTY.				
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RELINQUISHED BY:		1	DATE:	,		TIME	RECEIVED BY:	- DATE 30 10 TIME 1100
	_	1	- 1			_	- Marine 100	Ad Graphics Printing 570-886-0685

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

Horseheads, NY 14845

WO#:

10120831

PAGE: 1 of 1

PO#:

AF78267

PHONE:

FAX:

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

TEST REPORT

PWS ID#

05-005

RECEIVED FOR LAB BY: CMS

DATE: 12/06/2010 15:40

Page 1 of 1

SAMPLE: Inv. Cuttings

Composite

SAMPLED BY: SG

Sample Time: 12/06/2010 13:47

SLOQ

Test Total Petroleum Hydrocarbons

Result 94900 mg/Kg

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

< 0.100 mg/L

< 0.500 mg/L

< 0.100 mg/L

< 0.200 mg/L

Method EPA 9071

Analysis Start Analysis End Analyst* 12/08/10 14:20 12/08/10

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

SAMPLE: Inv. Cuttings

SAMPLED BY: SG

Result 16.4 %

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

Lab ID: 10120831-001A

Composite SLOQ

Analysis End Analyst * Test Analysis Start Method 12/07/10 IC-SA Moisture Moisture Calc. 0.01 12/06/10 17:30 Free Liquid < 0.1 % **EPA 9095A** 12/06/10 17:10 12/06/10 IC-SA pH 7.97@21.7°C **EPA 9045C** 12/07/10 14:20 12/07/10 MED-SA

SAMPLE: TCLP Leachate of Inv. Cuttings

SAMPLED BY: SG

Mercury - TCLP extracted

Arsenic - TCLP extracted

Barium - TCLP extracted

Cadmium - TCLP extracted

Chromium - TCLP extracted

Copper - TCLP extracted

Lead - TCLP extracted

Nickel - TCLP extracted

Silver - TCLP extracted

Zinc - TCLP extracted

Selenium - TCLP extracted

Test

Lab ID: 10120831-001E Sample Time: 12/07/2010 8:00

Method

EPA 7470A

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

FPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

Composite

0.500

0.100

0.200

SLOQ Analysis Start Analysis End Analyst* 0.0008 12/07/10 10:15 12/09/10 KW-CV 0.500 12/08/10 12:15 12/08/10 GSR-CV 10.00 12/08/10 12:15 12/08/10 GSR-CV 12/08/10 12:15 12/08/10 GSR-CV 0.100 0.500 12/08/10 12:15 12/08/10 GSR-CV 0.100 12/08/10 12:15 12/08/10 GSR-CV 12/08/10 12:15 12/08/10 GSR-CV 0.500 0.100 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

MANAGER

ani M. Davis

DATE:

12/08/10 12:15

12/08/10 12:15

12/08/10 12:15

12/10/2010

12/08/10

12/08/10

12/08/10

GSR-CV

GSR-CV

GSR-CV

REPORT TO: THE CONTRACTOR					PAGE 1 OF 1
Talisman / UEG					ARE SPECIAL DETECTION LIMITS
geowetlands@aol.com		W/	O#: 10120831		NEEDED: YES / NO
	REFRIGERATE SAME			NG USED FOR:	IFYES, PLEASE ATTACH
7-8	AFTER COLLECTION	DW DRINKIN	IG WATER SL SLUDGE NYDOH	NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley		A	D WATER SO SOIL E WATER HZ HAZARDOUS	LANDFILL.	YES NO
	TRANSPORT	WW WASTE			IFYES, PLEASE ATTACH REQUIREMENTS
PH# 607-731-0145 FAX#	LABORATORY	/ Jul /H	HYDROCHLORIC ACID OH SODIUM HYDRO	OKIDE	/ / L
BILL TO: Talisman	IN COOLER	/ /s/ /s	SULFURIC ACID AS ASCORBIC ACID)	/ / 3/
Bitt 10: Talisman	WITHICE	/ N S	O1 SODIUM SULFITE NH, AMMONIUM CHE	ORIDE	5/3/
PO# / F 70 2 / 7	- //	1 / 1	hio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHU	ORIDE / S	
PO# A F 78267	- /0/3/	* 18 3/ 11	An incomplete chain of custody may delay	the S	Please fill out all
PROJECT DESCRIPTION	The state of the s	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	processing of your sample(s).	12/	applicable areas completely
SAMPLER SIGNATURE / AFFILIATION	1 8 8 W	SER PER		18/5	S dompotory
CONTAINER SAMPLING POINT	DASE SAMPLED SAMPLE OF SAMPLING SAMPLE MATERIAL	SAMPLE TYPE SOUR COMPOSITE F	ANALYSIS TO BE PERFORMED (PER CONTAINER)	ORIDE ORIDE ORIDE	Please fill out all applicable areas completely
1 Inv Cuttings	14/6 1347 50 C		h an a sea trainer		
2	70/7/10/2	рН			
3			B RCRA Metals + Cu, Ni, Zn		
4			quids / % Moisture		
5 A- TPH		1100 2	quido 1 /s moiotaro		
	4 40 111	Perform	n BTEX ONLY IF the TPH		
6 B- pH. Free liquia,	1 moistire				
7 C- Amons, metals		exc	eeds 100,000 mg/Kg		
8 D. Total Sample		1			
8 E- TCLP metals			HOUR TURNAROUND		
10			DAY TURNAROUND		
11					
LAB USE CN. A CONTROL OF THE CONTROL					10 / No.
PER DEPARTMENT			TEMPERATURE UPON RE	1114	_°C , ARRIVAL ON IOE_Y∕ N.
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RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY: 10 00 10 10 11	In	12/6/10 TIME 1540
			I CHIVING I'IL	sylv=	Ad Graphics Printing 570-585-068

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

TEST REPORT

PWS ID#

PHONE: FAX:

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

05-005

SAMPLE: Inv. Cuttings

Test

SAMPLED BY: SG

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Grah

Grab

16

Grab

0.01

Grab

SLOQ

Lab ID: 10121729-001A

Sample Time: 12/09/2010 13:28

SLOQ Method

Analysis Start

Analysis End Analyst* 12/15/10

Page 1 of 3

Ignitability Neg ASIS °F SW846 1030 12/15/10 13:30

Result

1100 mg/Kg

Sample Note: Analysis performed by QC Laboratories

SAMPLE: Inv. Cuttings

Test

SAMPLED BY: SG

Result < 0.2 mg/Kg

Sample Time: 12/09/2010 13:28 Method SW 7.3.3.2

Lab ID: 10121729-001C

SW846 7.3

SLOQ Analysis Start 0.2 12/13/10 8:56

Analysis End Analyst* 12/14/10 HDP-CV

LTW-CV

NFM-SA

12/14/10

12/14/10

Reactive Sulfide SAMPLE: Inv. Cuttings

Cyanide, Reactive

SAMPLED BY: SG

SAMPLED BY: SG

Sample Time: 12/09/2010 13:28

Test Result % Solids 74.47 % Wght. Total Volatile Solids 9.31 % Wght.

Method SM2540B **EPA 160.4**

Lab ID: 10121729-001D

SLOQ Analysis Start 0.10 12/10/10 17:00

12/10/10 8:00

12/14/10 12:30

Analysis End Analyst * 12/13/10 IC-SA

SAMPLE: TCLP Leachate of Inv. Cuttings

Lab ID: 10121729-001F

Sample Time: 12/11/2010 12:45

Test	Result	Method	7757	Analysis Start	Analysis End	Analyst *
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:

MANAGER

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

ani 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

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

PHONE:

FAX:

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

TEST REPORT

PWS ID#

	-005 ED FOR LAB BY: RML	DATE:	12/09/2010 15:45			Pa	ige 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
Pent	achlorophenol	< 0.50 mg/L	EPA 8270C	0.50	12/15/10 7:48	12/15/10	RHH-SA
2,4-0	Dinitrotoluene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Hexa	achlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
Naph	nthalene	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-SA
SAMPLE:	TCLP Leachate of Inv. Cutting	as	Lab ID: 10121729-001G	Grab			
	MPLED BY: SG	10	le Time: 12/07/2010 8:00	SLOQ			
I	est	Result	Method		Analysis Start	Analysis End	Analyst *
Stron	ntium - TCLP extracted	< 0.050 mg/L	EPA 6010B	0.050	12/08/10 12:15	12/08/10	GSR-CV
Sa	ample Note: Sample for TCLP extract	ed Strontium was rec	eived on 12/6/10 at 15:40 b	y CMS.			
SAMPLE:	TCLP Leachate of Inv. Cutting	18	Lab ID: 10121729-001H	Grab			
	MPLED BY: SG		le Time: 12/11/2010 12:45	SLOQ			
I	est	Result	Method		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: 10121729-0011	Grab			
SAI	MPLED BY: SG	Sampl	le Time: 12/12/2010 13:10	0.00			
-		Daniel	Matter	SLOO	Applymin Clark	Analysis End	Analyst *
Benz	est	Result < 0.0250 mg/L	Method EPA 8260B	0.0250	Analysis Start 12/13/10 8:11	12/13/10	CTM-SA
	oon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
2716	robenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
7,110	proform	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
	Dichloroethane	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
	Dichloroethene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
200	lbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 B:11	12/13/10	CTM-SA
	ropylbenzene	< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
loop		< 0.0250 mg/L	EPA 8260B	0.0250	12/13/10 8:11	12/13/10	CTM-SA
Trick	nloroethene	< U.UZ3U MQ/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

B Analyte detected in the associated Method Blank

	//		
MANAGER	Carri M. Davis	DATE	12/16/2010
MANAGEN	and M. Owen	D/11	

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:

Dina Brown NAME:

COMPANY: Talisman Energy USA, Inc. ADDRESS: 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#

RECEIVED FOR LAB BY: RML	DAT	E: 12/0	09/2010 15:45			Pa	ige 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 II	D: 10121729-001J	Grab			
SAMPLED BY: SG	Sai	mple Time	e: 12/10/2010 11:15	SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst*
Chemical Oxygen Demand	178 mg/L	В	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cuttings		Lab II	D: 10121729-001L	Grab			
SAMPLED BY: SG	Sa	mple Tim	e: 12/10/2010 11:15	SLOQ			
Test	Result		Method	-	Analysis Start	Analysis End	Analyst*
pH	7.34@16.7°C		SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1890 mg/L		SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings		Lab I	D: 10121729-001M	Grab			
SAMPLED BY: SG	Sa	mple Tim	e: 12/10/2010 10:25		The second		
	20.0			SLOQ	-		
Test	Result		Method	202 B	Analysis Start	Analysis End	Analyst*
Total Organic Halldes	< 5.00 mg/kg		SW846/9023	5.00	12/15/10 15:45	12/15/10	
Sample Note: Analysis performed by A	nalytical 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

Analyte detected in the associated Method Blank

/1		~
Carri	M.	Davis
	Carrie	Carrie M.

DATE:

12/16/2010

CHAIN OF CUSTODY						E	Benchm:	51OF1
Talisman / UEG					2	566 P	Ea W/O#: 10121729	
geowetlands@aol.com						.0001	Phone : Fax: (570) 888-0717	SPECIAL DETECTION LIMITS NEEDED: □YES / ☑ NO
	17 TO 18 TO		LLECT		ES	6	INIDON MIDEO PADER	IF YES, PLEASE ATTACH IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley		TRANS	SPORT			SI W	V SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller	□YES ☑NO
PH# 607-731-0145		7	0		1	nt nt	DEIGNIZED WATER DI DISTILLED WATER DEPOCHAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#			OLER	Y	/	15	H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID	1/10/1
BILL TO: Talisman			ICE	_/	//	Odmo)	N NITRIC ACID AC ACETIC ACID SO 3 SODIUM SULFITE NH. AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE ZN ZINC ACETATE	LEIN OCO WEE
POH AF 78 Z6 7 SCRIPTION OS-005 SAMPLER SIGNATURE / AFFILIATION CONTAINER SAMPLING POINT	100	TIME SAMPLED	SAMPLING	SALLENATRIX	S. PAPE. OF	PRES MITH COMPOSITE	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). ANALYSISTO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely LAB USE ONLY
1 Inv Cuttings	12/9	1328	10	С	8	10	Ignitability, Reactive Sulfide & Cyanide	
2				C		11	PCBs, Total Solids	
3 A Phots, Ign.				G	11	11	Total Volatile Solids	
4 C- Restivida				C	1	1	Ammonia-Nitrogen	
5 D- 75, TUS 0				C	1		Water Leaching Procedure: COD,	
6 E-Total Sample	V	1	1	C	1	V	Total Solids, Oil & Grease,	3.4
7 F-TOLP BNA, PISTS.								
8 G-TCCP Herts Sr								
9 H-TEEP PH		X	AS	*	74	-	36 HOUR TURNAROUND	
10 I - TELP UPS.		1	The state of	STM	17	Sot	DAY TURNAROUND	
11 J- ASTM COD, 24		m	TO	X				
Laz use om i k au fall Wilfarto Er	**************************************		7		*		estaterary out of the entrainty	ઉલ્લામકારી અનુ છે ફેર્મ ઉ
RELINOUTS HED'BY:	-4		DATE:	9.11	10	TIME:	RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:			DATE:	1	_	TIME:	REGEIVED BY:	DATE: TIME:
RELINQUISHED BY:		1	DATE:	1		TIME:	RECEIVED BY DE AZ	949 19 10 TM5 5 M Graphics Printing 570-888-0885



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	ist be fully and accurately ly printed in the spaces pro d sheet as Form 26R, refe e date on attached sheets no	vided. If additional sprence the item numb	pace is necessary, identi per and identify the da	fy Da	DEP (te Receive		ONLY eneral Notes	
Gener	al Refer	ence 287.54							
Date P	repared	d/Revised Februar	y 11, 2011						
			IENT (GENERATOR	R OF THE WASTE) IN	FORMA	TION			
	any Nar								
		ergy USA Inc. y, Name of Parent Company				EPA (Gener	ator ID#	
		ergy Inc.				N/A			
		ling Address Line 1	C	ompany Mailing Addres	s Line 2				
	nnwood	I Place Iress Last Line – City	State	Zip+4	Phon	0		Ext	
Warre		ness cast time only	PA	15086		814-530	0		
Comp		ntact Last Name	First Name	MI		Suffix			Ī
Munic			Dina	County				-	
Warre				Allegheny					
1557A7016GG0	ct Phon		ntact Email Address						j
	814-53		prown@talismanusa.				V	NA NA	4
		enerated at the Company Ma be location of waste generat			ing natura		Yes	⊠ No erations at	
the		-009) well pad site located at 1							
- C 25/3/3/C 2019	ners on			I.V.		ii.e	-		
Munic	ipality	Columbia	County Bradfe		5	tate	PA		
Posi	idual	Residual V	ALEXANDER OF THE PARTY OF THE P	E DESCRIPTION	Unit	of		Time	
	Code	Code Descr		Amount	Meas			Frame	
810		Drill cuttings (oil and gas)		3,476	cu yd	gal			
010		Drill Cuttings (oil and gas)] lb	⊠ ton		One Time	
2	pH Ra	nge 8.70	1. GENERAL F to 10.94	(based on analyses or kn	owladga)				
a. b.		cal State	Liquid Waste (EPA Me		owiedge)		-		
-	,		Solid (EPA Method 90 Gas (ambient tempera	95)					
C.	Physic	cal Appearance Co			Farth	y/Slight F	Petrol	eum	Ħ
(2)	0.000			d Phases of Separation	One	yr ongric i	01101	Julia	
				separation. Soil and Roo	k Fragme	ents			
2	The re	sults of a detailed chemical	2. CHEMICAL ANALY		tho	M	Yes	□ No	
a.	instru	ctions, is attached.			tile			☐ 140	
b.		iled description of the waste	A STATE OF THE STA				Yes	□ No	
C.	The quattach	uality assurance/quality cont ed.	troi procedures emplo	yed by the laboratory(ie	s) is		Yes	☐ No	
d.		sults of the hazardous wast	e determination is atta	iched.			Yes	☐ No	
e.		icable, a detailed explanatio actual chemical analysis is		enerator knowledge in	☐ Yes		No	⊠ N/A	

		3. PROCESS DESCRIPTION					
a.	A detailed description of the the waste, as specified in the			esses producing		Yes	No
).	A schematic of the manufa as specified in the instruct		control processes pro	ducing the waste,		Yes	No
	If portions of the information a confidentiality claim, as of			on for Yes		No	N/A
	SEC	TION C. MANAGE	MENT OF RESIDU	JAL WASTE			
			R DISPOSAL FACILITY(I	COUNTY TO CARLO STORY CONTY			
he a	area below (ad.) will accomm	nodate the identification of	of two facilities. Attac	h additional sheets	if nec	essary	
1.	Solid waste permit number 9-0232-00003	r(s) for processing or dis	posal facility being uti	lized.			
).	Facility Name	Hyland Landfill					
	Address Line 1	6653 Herdman Roa	d				
	Address Line 1	A					
	Address City State ZIP	Angelica	NY	14709			
	Municipality	Angelica	County	Allegany			
	Facility Contact Name	Larry Shilling					
	Title						
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella	.com	
i.	Phone Volume of waste shipped t 1,489		44.000.000.000.000.000.000	s year.	-	.com	
	Volume of waste shipped t	o processing or disposal	facility in the previou	s year. n (check one)	-	com	
+	Volume of waste shipped t 1,489 Solid waste permit number	o processing or disposal	facility in the previou lb S to posal facility being uti	s year. n (check one)	-	com	
	Volume of waste shipped t 1,489 Solid waste permit number 8-4630-00010	o processing or disposal cuyd gal (s) for processing or dis	facility in the previou lb do to posal facility being uti	s year. n (check one)	-	.com	
+	Volume of waste shipped t 1,489 Solid waste permit number 8-4630-00010 Facility Name	o processing or disposal cuyd gal r(s) for processing or dis Hakes C&D Landfill	facility in the previou lb do to posal facility being uti	s year. n (check one)	-	.com	
	Volume of waste shipped to 1,489 Solid waste permit number 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP	o processing or disposal cuyd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post	facility in the previou lb S to posal facility being uti e Road	s year. n (check one)	-	com	
	Volume of waste shipped to 1,489 Solid waste permit number 8-4630-00010 Facility Name Address Line 1 Address Line 1	o processing or disposal cu yd gal gal (s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg	facility in the previou lb S to posal facility being uti e Road	s year. n (check one) lized.	-	com	
i.	Volume of waste shipped to 1,489 Solid waste permit number 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP	o processing or disposal cuyd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post	facility in the previou lb S to posal facility being uti e Road	s year. n (check one) lized.	-	com	
	Volume of waste shipped to 1,489 Solid waste permit number 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	o processing or disposal cu yd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271	facility in the previou lb oto posal facility being uti e Road NY County Email Address	s year. n (check one) lized. 14870 Steuben joe.boyles@case			
	Volume of waste shipped to 1,489 Solid waste permit number 8-4630-00010 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	o processing or disposal cu yd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271	facility in the previou lb do posal facility being uti e Road NY County Email Address	s year. n (check one) lized. 14870 Steuben joe.boyles@cases	ella.co		
	Volume of waste shipped to 1,489 Solid waste permit number 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 1,489	o processing or disposal cuyd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 o processing or disposal cuyd gal	facility in the previou lb do posal facility being uti e Road NY County Email Address facility in the previou	s year. n (check one) lized. 14870 Steuben joe.boyles@cases	ella.co		
	Volume of waste shipped to 1,489 Solid waste permit number 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 1,489	o processing or disposal cuyd gal r(s) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 o processing or disposal cuyd gal	facility in the previou lb to	s year. n (check one) lized. 14870 Steuben joe.boyles@cases	ella.co		No
),	Volume of waste shipped to 1,489 Solid waste permit number 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 1,188	cu yd gal cu yd gal cu yd gal cu yd gal cs) for processing or dis Hakes C&D Landfill 4376 Manning Ridg Painted Post Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 o processing or disposal cu yd gal zed for beneficial use?	Facility in the previous to be	s year. n (check one) lized. 14870 Steuben joe.boyles@cases	ella.co	om	No
	Volume of waste shipped to 1,489 Solid waste permit number 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 1,188	cu yd	Facility in the previous to be	s year. n (check one) lized. 14870 Steuben joe.boyles@case s year. n (check one)	ella.co	om	No

		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS	-
a.		ne manufacturing and/or pollution control processes producing Yes Note that the instructions, is attached.	0
b.	A schematic of the manufa as specified in the instruct	cturing and/or pollution control processes producing the waste, Yes Note that Note that the state of the	0
C.		on submitted are confidential, the substantiation for Yes No No described in the instructions, is attached.	/A
	SEC	TION C. MANAGEMENT OF RESIDUAL WASTE	
The	area below (ad.) will accomm	PROCESSING OR DISPOSAL FACILITY(IES) nodate the identification of two facilities. Attach additional sheets if necessary.	-
a.	Solid waste permit number 8-0728-00004	(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 Title	Carla Canjar	
	Phone	(585) 797-5941 Email Address carla.canjar@casella.com	
d.	724	o processing or disposal facility in the previous year. cu yd gal lb ton (check one)	
a.	100361	(s) for processing or disposal facility being utilized.	
b.	Facility Name	McKean County Landfill	
	Address Line 1	19 Ness Lake	
	Address Line 1		
	Address City State ZIP	Kane PA 16735	
		County Mallan	
	Municipality	Sergeant Twp County McKean	
C.	Municipality Facility Contact Name Title	Mike Manderfeld	
C.	Facility Contact Name		
c. d.	Facility Contact Name Title Phone	Mike Manderfeld	
	Facility Contact Name Title Phone Volume of waste shipped t	Mike Manderfeld (814) 778-9931 Email Address manderfeld@gmail.com o processing or disposal facility in the previous year.	
d.	Facility Contact Name Title Phone Volume of waste shipped t	Mike Manderfeld (814) 778-9931	0
	Facility Contact Name Title Phone Volume of waste shipped t 75 Has the waste been approx	Mike Manderfeld (814) 778-9931	0

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: 9 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)

Title

Date

Environmental Specialist

125/4

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10043195

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#: 10043195

PAGE: 1 of 1

PO#:

PWS ID#

PHONE: (607) 562-4000

FAX: (607) 562-4001

Rig 14

SAN

RECEIVED FOR LAB BY: TJC

DATE: 04/22/2010 15:05

Page 1 of 1

IPLE: Air Cuttings	L	ab ID: 10043195-001A	Compo	site		
SAMPLED BY: RP	Sample	Time: 04/21/2010 14:00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/21/10 9:00	04/26/10	KW-CV
Sodium	466 mg/Kg-dry	EPA 6010B	127	04/23/10 16:05	04/26/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/24/10 9:55	04/26/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-C
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Zinc - TCLP extracted	0 mg/L	EPA 6010B	0.200	04/24/10 9:55	04/26/10	RMD-C\
рН	8.84 @ 24.3°C	EPA 9045D		04/26/10 12:05	04/26/10	NC-CV
Chloride	456 mg/Kg-dry	EPA 300.0	59.2	04/23/10 15:09	04/24/10	HDP-CV
Free Liquid	ABSENT	EPA 9095A		04/23/10 9:50	04/23/10	DTG-CV
Percent Moisture	15.6 %	SM2540G		04/23/10 16:00	04/26/10	DMB-CV

SAMPLE: Air Cuttings SAMPLED BY: Client Lab ID: 10043195-001B Composite

Sample Time: 04/21/2010 14:00

SLOQ

Test Total Petroleum Hydrocarbons

Result 383 mg/Kg Method EPA 9071

Analysis Start 04/23/10 11:00 Analysis End Analyst * 04/23/10

Sample Note: Analysis performed by Microbac -Erie Div.

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

anie M. Davis

DATE:

4/26/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10043203

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#: 10043203

PAGE: 1 of 1

PO#:

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

Rig 14

SA

RECEIVED FOR LAB BY: TJC

DATE: 04/22/2010 15:05

TEST REPORT

Page 1 of 1

AMPLE: Air Cuttings	La	ab ID: 10043203-001A	Compo	site		
SAMPLED BY: Client	Sample	Time: 04/21/2010 12:30				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/21/10 9:00	04/26/10	KW-CV
Sodium	711 mg/Kg-dry	EPA 6010B	154	04/23/10 16:05	04/26/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/24/10 9:55	04/26/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-C\
Copper - TCLP extracted	0.178 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-C\
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-C\
Nickel - TCLP extracted	0.124 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-C
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-C
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-C
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	04/24/10 9:55	04/26/10	RMD-C
pH	10.94 @ 22.3°C	EPA 9045D		04/26/10 12:05	04/26/10	NC-CV
Chloride	4200 mg/Kg-dry	EPA 300.0	70.4	04/23/10 15:09	04/24/10	HDP-C
Free Liquid	ABSENT	EPA 9095A		04/23/10 9:50	04/23/10	DTG-C
Percent Moisture	29.0 %	SM2540G		04/23/10 16:00	04/26/10	DMB-C
Sample Note: The temperature of	f the extraction room exceede	d the range of 23 ± 2°C				
AMPLE: Air Cuttings	L	ab ID: 10043203-001B	Compo	site		
SAMPLED BY: Client	Sample	Time: 04/21/2010 12:30	21.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 270 mg/Kg	EPA 9071	270	04/23/10 11:00	04/23/10	-

REMARKS:

SA

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

Sample Note: Analysis performed by Microbac - Erie Div.

DATE:

4/26/2010

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10043205

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#: 10043205

PAGE: 1 of 1

PO#:

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

Rig 14

SA

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DATE: 04/22/2010 15:05

Page 1 of 1

AMPLE: Air Cuttings		ab ID: 10043205-001A	Compo	site		
SAMPLED BY: RP	Sample	Time: 04/21/2010 14:00	SLOQ			
Test	Result	Method	223	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/21/10 9:00	04/26/10	KW-CV
Sodium	244 mg/Kg-dry	EPA 6010B	125	04/23/10 16:05	04/26/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/24/10 9:55	04/26/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Copper - TCLP extracted	0.194 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/24/10 9:55	04/26/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/24/10 9:55	04/26/10	RMD-CV
Zinc - TCLP extracted	0.203 mg/L	EPA 6010B	0.200	04/24/10 9:55	04/26/10	RMD-CV
pH	8.70 @ 22.6°C	EPA 9045D		04/26/10 12:05	04/26/10	NC-CV
Chloride	< 58.3 mg/Kg-dry	EPA 300.0	58.3	04/23/10 15:09	04/24/10	HDP-CV
Free Liquid	ABSENT	EPA 9095A		04/23/10 9:50	04/23/10	DTG-CV
Percent Moisture	14.2 %	SM2540G		04/23/10 16:00	04/26/10	DMB-CV
Sample Note: The temperature of	f the extraction room exceede	d the range of 23 ± 2°C				
MPLE: Air Cuttings	L	ab ID: 10043205-001B	Compo	site		
SAMPLED BY: RP	Sample	Time: 04/21/2010 14:00	SLOQ			
Test	Result	Method	-	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 230 mg/Kg	EPA 9071	230	04/23/10 11:00	04/23/10	

REMARKS:

SA

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 Chuic M. Davis

DATE:

4/26/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10071885

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#: 10071885

PAGE: 1 of 1

PO#: AF76760

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

Well

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DATE: 07/13/2010 13:15

TEST REPORT

Page 1 of 1

SAMPLE: Inv. Cuttings SAMPLED BY: SG		ab ID: 10071885-001A Time: 07/12/2010 14:20	Grab			
Test Total Petroleum Hydrocarbons Sample Note: Analysis performed	Result 101000 mg/Kg by Microbac-Erie	Method EPA 9071	SLOQ	Analysis Start 07/15/10 0:00	Analysis End 07/15/10	Analyst*
SAMPLE: Inv. Cuttings SAMPLED BY: SG		ab ID: 10071885-001B Time: 07/12/2010 14:20	Grab			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *

pH 9.43@22.8°C EPA 90450	С	07/14/10 12:23	07/14/10	DLM-SA
Free Liquid < 0.1 % EPA 9095A	A 0.1	07/14/10 8:40	07/14/10	IC-SA
Moisture 40.0 % Moisture Ca	ilc. 0.01	07/14/10 14:30	07/15/10	NFM-SA
Test Result Method	SLOQ	Analysis Start	Analysis End	Analyst*

SAMPLE:	TCLP Leachate of Inv. Cuttings
	DI TD DV 00

Sample Time: 07/12/2010 14:20 SAMPLED BY: SG

			SLUQ			
Test	Result	Method		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	0.150 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
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	07/16/10 15:00	07/17/10	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

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



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.							
Genera	al Refer	rence 287.54						
Date P	repare	d/Revised Fe	ebruary 11, 2011					
		SECTION A.	CLIENT (GENERATO	R OF THE WASTE) IN	FORMA	TION		
	any Nar							
		ergy USA Inc.						
		y, Name of Parent Com	pany				enerate	or ID#
		ergy Inc. Iling Address Line 1		Company Mailing Addres	e Line 2	N/A		
		Place		Joinparty Mailing Addres	S Line 2			
	200	ress Last Line - City	State	Zip+4	Phone			Ext
Warre	Warrendale PA 15086 (724) 814				814-5300)		
EUR AND CARLOT CAR		ntact Last Name	First Name	MI		Suffix		
Brown			Dina					
Munici				County				
	ct Phon	e Ext	Contact Email Address	Allegheny		-		
	814-53		dybrown@talismanusa.	com				
If 'No'.	descri (03-0	be location of waste ge 15) well pad site located	iny Mailing Address (noted neration and storage. Drill at 368 Beaman Road, Colun	above)? cuttings are generated du	ring natural County, PA.	gas drillir	res ng opera stored i	No No ations at
Munici	ners on a	Columbia	County Bradf	ford	St	ate	PA	
	· F · · · · · ·	Oblumbia	SECTION B. WAS			-	173	
Resi	dual	Resid	dual Waste	IL DEGUINI HON	Unit	of	-	Time
Waste	23/20/20/2	30000000	Description	Amount	Measu			rame
810		Drill cuttings (oil and	nas)	5,721	cu yd	gal		
0,0		Drill Gattings (on and			lb	⊠ ton		ne Time
	nU Da	nna 0	1. GENERAL I	BACK-URC RESCUEST	landadan)			
a. b.	pH Ra	cal State	07 to 9.76 Liquid Waste (EPA M	(based on analyses or kr	lowledge)	_		
U.	Filysii	sai State	Solid (EPA Method 90 Gas (ambient tempera	095)				
C.	Physic	cal Appearance	Color Greyish Black		r Earthy	/Slight P	etroleu	m
			Number of Solid or Liqui	Annual Control of the Section Control of Control of the Section Sectio	One			
			Describe each phase of	separation. Soil and Ro	ck Fragme	nts		
-	-		2. CHEMICAL ANALY	COLO ATTACUMENTO				
a.	The re	sults of a detailed che	mical characterization of th		the	N Y	/es	□ No
	instru	ctions, is attached.				EN.		
b.		CONTRACTOR STORY AND ADMINISTRATION OF THE PARTY.	waste sampling method is	A PARTITION OF THE PARTITION OF T			/es	☐ No
C.	The quattach		y control procedures emplo	oyed by the laboratory(ie	s) is	× 1	/es	□ No
d.	43448124		waste determination is atta	ached.		M 1	/es	□ No
e.	If appl	CATION HIS PROPERTY OF A SECOND SECTION	nation supporting use of g		Yes		No	⊠ N/A

		3. PROCESS DESCRIPTIO	N & SCHEMATIC ATTAC	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		ontrol processes pro-	ducing the waste,	⊠ Yes	□ No
C.	If portions of the information a confidentiality claim, as of			n for Yes	□ No	⊠ N/A
	SEC	TION C. MANAGEN	ENT OF RESIDU	JAL WASTE		
		1. PROCESSING OR	DISPOSAL FACILITY(II	ES)		
The a	area below (ad.) will accomm	odate the identification of	f two facilities. Attacl	n additional sheets	if necessary	1.
a.	Solid waste permit number 8-4630-00010	(s) for processing or disp	oosal facility being util	lized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	e Road			
	Address Line 1			40.00		
	Address City State ZIP	Painted Post	NY	14870		
	Municipality	Erwin Twp	County	Steuben		
C.	Facility Contact Name Title	Joseph Boyles				
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com	
d.	Volume of waste shipped t 2,212	o processing or disposal cu yd gal	facility in the previous)	
a.	Solid waste permit number 9-0232-00003	(s) for processing or disp	oosal facility being util	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 Title	Larry Shilling				
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped t		facility in the previous	s year.	2.777.727.777	
		2. BEN	IEFICIAL USE			
a.	Has the waste been approv	ved for beneficial use?			Yes	⊠ No
	If "Yes", list the general pe					
b.	Volume of waste beneficia 0	ly used in the previous year	ear.	n (check one)	

100		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENT	S		Anna San San San
a.		ne manufacturing and/or pollution control processes p he instructions, is attached.	roducing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct	cturing and/or pollution control processes producing ions, is attached.	the waste,	⊠ Yes	□ No
c.		on submitted are confidential, the substantiation for described in the instructions, is attached.	Yes	□ No	⊠ N/A
	SEC	TION C. MANAGEMENT OF RESIDUAL W	ASTE		
		PROCESSING OR DISPOSAL FACILITY(IES)			
The		odate the identification of two facilities. Attach addition	onal sheets	if necessary	
a.	Solid waste permit number 8-0728-00004	(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 Chen	nung		
c.	Facility Contact Name	Carla Canjar			
	Title Phone	Environmental Manager			
		(585)797-5941 Email Address carla	canjar@ca	sella.com	
d.	1,633	o processing or disposal facility in the previous year. Cu yd Gal Bb Ston	(check one)	
a.	100361	(s) for processing or disposal facility being utilized.			
b.	Facility Name	McKean County Landfill			
	Address Line 1	19 Ness Lane			
	Address Line 1				
	Address City State ZIP	Kane PA	16735		
	A A CONTRACTOR OF THE PARTY OF				
	Municipality	Sergeant Twp County McKe			
c.	Facility Contact Name	Sergeant Twp County McKe Mike Manderfeld			
C.	Facility Contact Name Title	Mike Manderfeld	ean		
c.	Facility Contact Name	Mike Manderfeld		nail.com	
	Facility Contact Name Title Phone	Mike Manderfeld	ean		
c.	Facility Contact Name Title Phone Volume of waste shipped t 16	Mike Manderfeld (814) 778-9931 Email Address mand or processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☒ ton 2. BENEFICIAL USE	ean lerfeld@gn		
d.	Facility Contact Name Title Phone Volume of waste shipped t	Mike Manderfeld (814) 778-9931 Email Address mand or processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☒ ton 2. BENEFICIAL USE	ean lerfeld@gn		⊠ No
	Facility Contact Name Title Phone Volume of waste shipped t 16 Has the waste been approx	Mike Manderfeld (814) 778-9931 Email Address mand or processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☒ ton 2. BENEFICIAL USE	ean lerfeld@gn)	⊠ No

Signature

			SECTION D. CERTIFICATION
Repo obta know	ort and all attached docu ining the information, I viedge. I understand tha	uments verify t the s	ave 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.
Che	k the following, if applica	ble:	
	I 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 and has not char		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		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Nam	e of Responsible Official		Title Environmental Specialist
Dina	Brown		

Date 2/25/4

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10052271

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

Horseheads, NY 14845

TEST REPORT

WO#: 10052271

PAGE: 1 of 2

PO#:

PWS ID#

(607) 562-4001 JIH Well

PHONE:

FAX:

RECEIVED FOR LAB BY: DLM2	DATE:	05/17/2010 12:23	Page 1 of 2				
SAMPLE: Air Cuttings SAMPLED BY: SG		ab ID: 10052271-001A Time: 05/12/2010 14:30	Compo	site			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *	
Sodium	249 mg/Kg-dry	EPA 6010B	110	05/19/10 8:10	05/21/10	RMD-C\	
Chloride	132 mg/Kg-dry	EPA 300.0	57.9	05/19/10 16:53	05/20/10	HDP-CV	
Percent Moisture	13.7 %	SM2540G		05/19/10 15:40	05/20/10	NFM-SA	
SAMPLE: Air Cuttings	T.	ab ID: 10052271-001B	Compo	site			
SAMPLED BY: SG	Sample	Sample Time: 05/12/2010 14:30					
	E		SLOQ	in the second second		400000	
Test	Result	Method	4.14	Analysis Start	Analysis End	Analyst *	
Moisture	13.7 %	Moisture Calc.	0.01	05/19/10 15:40	05/20/10	NFM-SA	
Free Liquid	< 0.1 %	EPA 9095A	0.1	05/19/10 11:00	05/19/10	IC-SA	
рН	8.07@23.1°C	EPA 9045C		05/19/10 8:00	05/20/10	NFM-SA	
SAMPLE: Air Cuttings	1	ab ID: 10052271-001C	Compo	site			
SAMPLED BY: SG	Sample	Time: 05/12/2010 14:30	20.00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *	
Total Petroleum Hydrocarbons	< 254 mg/Kg	EPA 9071	254	05/18/10 11:30	05/18/10	Arialyst	
Sample Note: Analysis performed		LIASUIT	204	05/10/10 11.50	03/10/10		
SAMPLE: TCLP Leachate of Air Cut	ttings I	ab ID: 10052271-001E	Compo	site			
SAMPLED BY: SG		Time: 05/12/2010 14:30	SLOQ				
Test	Result	Method		Analysis Start	Analysis End	Analyst *	
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	05/20/10 10:00	05/21/10	KW-CV	
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	05/21/10 13:45	05/24/10	GSR-CV	
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	05/21/10 13:45	05/24/10	GSR-CV	
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	05/21/10 13:45	05/24/10	GSR-CV	
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	05/21/10 13:45	05/24/10	GSR-CV	
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	05/21/10 13:45	05/24/10	GSR-CV	
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	05/21/10 13:45	05/24/10	GSR-CV	
REMARKS:							

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 5/25/2010 DATE:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10052271

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#: 10052271

PAGE: 2 of 2

PO#:

PWS ID#

PHONE: (607) 562-4000

FAX: (607) 562-4001

JIH Well						
RECEIVED FOR LAB BY: DLM2	DATE:	Page 2 of				
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	05/21/10 13:45	05/24/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	05/21/10 13:45	05/24/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	05/21/10 13:45	05/24/10	GSR-CV
Zinc - TCLP extracted	<0.2 mg/L	EPA 6010B	0.200	05/21/10 13:45	05/24/10	GSR-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. Davis

DATE:

5/25/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Savre, PA 18840

Work Order: 10071890

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

SEND DATA TO:

NAME: Steve Gridley COMPANY:

Talisman Energy USA, Inc.

337 Daniel Zenker Dr

Horseheads, NY 14845

WO#: 10071890

PAGE: 1 of 1

PO#: AF76802

PWS ID#

PHONE:

FAX:

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

TEST REPORT

Well

ADDRESS:

RECEIVED FOR LAB BY: CTM

DATE: 07/13/2010 14:55

Page 1 of 1

SAMPLE: Inv. Cuttings SAMPLED BY: SG

Lab ID: 10071890-001A

Method

Lab ID: 10071890-001B

EPA 9071

Sample Time: 07/12/2010 14:00

Test Result Total Petroleum Hydrocarbons 97100 mg/Kg SLOQ Analysis Start

Grab

Grab

Analysis End Analyst*

07/15/10 0:00 07/15/10

Sample Note: Analysis performed by Microbac-Erie

SAMPLE: Inv. Cuttings

SAMPLED BY: SG

Sample Time: 07/12/2010 14:00

SLOQ Analysis End Analyst * Test Result Method Analysis Start Moisture 26.9 % Moisture Calc. 0.01 07/14/10 14:30 07/15/10 NFM-SA **EPA 9095A** IC-SA Free Liquid < 0.1 % 0.1 07/14/10 8:45 07/14/10 pH **EPA 9045C** 07/14/10 12:23 07/14/10 DLM-SA 9.76@22.6°C

SAMPLE: TCLP Leachate of Inv. Cuttings

SAMPLED BY: SG

Lab ID: 10071890-001D Grab

Sample Time: 07/12/2010 14:00 SLOQ

Test	Result		Method		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	0.108 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	0.132 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	0.170 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
Zinc - TCLP extracted	115 mg/L	L	EPA 6010B	0.200	07/16/10 15:00	07/17/10	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:

7/20/2010



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

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

This fo	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.						DEP USE ONLY			
each a							& Ger	neral N	otes	
Genera	al Refe	rence 287.54								
Date P	repare	d/Revised Februa	ry 11, 2011							
	-	SECTION A. CL	IENT (GENERATO	R OF THE WASTE) INF	ORMAT	TION				
	any Na									
		ergy USA Inc.				EPA G		tor ID	44	
		y, Name of Parent Company ergy Inc.				N/A	enera	itor ib	#	
		iling Address Line 1	C	ompany Mailing Address	Line 2	1475				
		d Place								
	Company Address Last Line – City Warrendale		State	Zip+4	Phone			Ext		
	0.00	ntact Last Name	PA First Name	15086 MI	(124) 8	314-5300 Suffix	-	-		
Brown			Dina	****						
Munic				County						
Warre	DUNING BALL	F.4 0		Allegheny						
	ct Phor 814-53		ontact Email Address brown@talismanusa.	com						
		generated at the Company M				ПΥ	es	M	No	
	descri	be location of waste general	tion and storage. Drill	cuttings are generated duri				rations	s at	
the		-047) well pad site located at 2	2196 Fallbrook Road, Ar	menia Township, Bradford	County, P	A. Waste	is sto	red in		
Munici	ners on	Armenia	County Bradf	ord	Sta	ate	PA			
	P			TE DESCRIPTION						
Resi	dual	Residual			Unit	f		Time	9	
Waste	Code	Code Desc	ription	Amount		The state of the s		Fram	е	
810		Drill cuttings (oil and gas)		5,945	cu yd	☐ gal ☐ ton		One 1	Time	
			1. GENERAL F	PROPERTIES	1 10	M toll		One	iiie	
a.	pH Ra	inge 7.37	to 11.62	(based on analyses or kno	wledge)					
b.		cal State	Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	ethod 9095) 195)						
C.	Physi	Nu		d Phases of Separation	One	/Slight Pe	etrole	eum		
		De	escribe each phase of	separation. Soil and Rocl	rragine	115				
			2. CHEMICAL ANALY	SIS ATTACHMENTS						
a.	instru	esults of a detailed chemical ctions, is attached.			he		es		No	
b.		ailed description of the wast					es		No	
C.	attach) is	⊠ Y	es		No	
d.	- 10000	esults of the hazardous was					es		No	
e.		licable, a detailed explanation factual chemical analysis is		enerator knowledge in	Yes		lo		N/A	

		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 manufa as specified in the instructi		ontrol processes proc	ducing the waste,	⊠ Yes		No
c.	If portions of the information a confidentiality claim, as of			n for Yes	□ No	\boxtimes	N/A
	SECT	TION C. MANAGEM	ENT OF RESIDU	JAL WASTE			
			DISPOSAL FACILITY(IE				
The a	area below (ad.) will accomm	odate the identification of	two facilities. Attack	n additional sheets	if necessary	1,	
a.	Solid waste permit number 9-0232-00003	(s) for processing or disp	osal facility being util	lized.			
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 Title	Larry Shilling					
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com		
d.	Volume of waste shipped t 2,368	o processing or disposal	facility in the previous)		
a.	Solid waste permit number 8-4630-00010	(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						
	Address City State ZIP	Painted Post	NY	14870			
	Municipality	Erwin Twp	County	Steuben			
C.	Facility Contact Name Title	Joseph Boyles					
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@cas	ella.com		
d.	Volume of waste shipped t 1,789	o processing or disposal cu yd gal	facility in the previous)		
	- 05	2. BEN	EFICIAL USE			100	
a.	Has the waste been approv	red for beneficial use?			Yes	\boxtimes	No
			a constitute is				
	If "Yes", list the general pe	rmit number or approval i	number.				_

		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.		on submitted are confidential, the substantiation for Yes No N/A described in the instructions, is attached.
	SEC	TION C. MANAGEMENT OF RESIDUAL WASTE
		1. PROCESSING OR DISPOSAL FACILITY(IES)
The a	rea below (ad.) will accomn	nodate the identification of two facilities. Attach additional sheets if necessary.
a.	Solid waste permit numbe 8-0728-00004	r(s) for processing or disposal facility being utilized.
b.	Facility Name	Chemung County Landfill
	Address Line 1 Address Line 1	1690 Lake Street
	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 t 899	to processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☑ ton (check one)
a.	Solid waste permit number 101243	r(s) for processing or disposal facility being utilized.
b.	Facility Name	Northern Tier Solid Waste Authority - Bradford County
	Address Line 1	108 Steam Hollow Road
	Address Line 1	
	Address City State ZIP	Troy PA 16947
	Municipality	West Burlington 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 t 868	to processing or disposal facility in the previous year. Cu yd gal lb ton (check one)
		2. BENEFICIAL USE
a.	Has the waste been appro-	
	If "Yes", list the general pe	ermit number or approval number.
		Ily used in the previous year.

a.		J. I NOCESS DESCRIP	TION & SCHEMATIC ATTA	CHMENIA			
	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		n control processes pro	ducing the waste,		Yes	No
c.	If portions of the information a confidentiality claim, as of			on for Yes		No	N/A
	SECT	TION C. MANAGE	EMENT OF RESID	UAL WASTE			
		A STATE OF THE PARTY OF THE PAR	OR DISPOSAL FACILITY(I	State of the state			
The a	area below (ad.) will accomm	odate the identification	n of two facilities. Attac	h additional sheets	if nec	essary	
a.	Solid waste permit number 100361	(s) for processing or d	isposal facility being ut	llized.			
b.	Facility Name	McKean County L	andfill				
	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 Title	Mike Manderfeld					
	Phone	(814) 778-9931	Email Address	manderfeld@gn	nail.co	om	
d.	Volume of waste shipped to 21	o processing or dispos					
				in (check one)		
a.	Solid waste permit number)		-
a. b.	Facility Name Address Line 1 Address City State ZIP						
V.	Facility Name Address Line 1 Address Line 1						
	Facility Name Address Line 1 Address Line 1 Address City State ZIP		lisposal facility being ut				
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name		lisposal facility being ut				
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	r(s) for processing or d	County Email Address sal facility in the previous	ilized.			
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	o processing or dispos	County Email Address sal facility in the previous	ilized.			
b. c.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	o processing or dispose cuyd gal	County Email Address sal facility in the previou	ilized.		Yes	No
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to	o processing or dispose cu yd gal 2. Eved for beneficial use?	County Email Address sal facility in the previous by the second	ilized.		Yes	No

			SECTION D. CERTIFICATION
Repo obtai know	ort and all attached docu ining the information, I viedge. I understand that	ments verify 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 applical	ble:	
	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		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 for the year and I		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Nam	e of Responsible Official		Title Environmental Specialist
Dina	Brown		
Sign	ature 122	-	Just 2(25/11

LAB ID # 11216 LAB ID # 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10030690

10030690

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

PAGE:

PO#:

WO#:

TEST REPORT

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

SAMPLE: Air Cuttings C-1	Lab ID: 10030690-001A		Grab			
SAMPLED BY: SG	Sar	Sample Time: 03/02/2010 11:30				
Test	Result	Method	SLOQ	Analysis Start 03/08/10 14:37	Analysis End 03/08/10	Analyst* NC-CV
рН	11.62 @ 25.2°C	EPA 9045D				
Chloride	476 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 Cu	ttings C-1	Lab ID: 10030690-001C	Grab			
SAMPLED BY: SG	Sai	mple Time: 03/02/2010 11:30				
Test	Result	Method	SLOQ	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/		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

MANAGER	Carrie M. Davisi	DATE:	3/17/2010	
***************************************	9000			

CHAIN OF CUSTODY			rk Analytics, Inc.		PAGE	OF_/_
REPORT TO: Talisman		2566 Pennsylvani Phone	stern Division a Avenue • Sayre, PA 18840 : (570) 888-0169 (570) 888-0717)	ARE SPECIAL DETECT	TION LIMITS
	REFRIGERATE SAMPLES AFTER COLLECTION	_		RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTAC	н
CONTACT Stew Grubber		DW DRINKING GW GROUND W SW SURFACE W	ATER SO SOIL VATER HZ HAZARDOUS	NYDOH NYDEO PADER	IS A QC PACKA YES	GE NEEDED?
PH#607-731-0145	TRANSPORT	/ WW WASTEWA	TER OTHER	DEDENNAL OTHER	IFYES, PLEASE ATTAC	H REQUIREMENTS
FAX#	LABORATORY /			PWS ID#		
BILL TO: Talisman	IN COOLER WITH ICE	1		Location		
PO#	/	w W	/0#: 100306			
PTION	Date Sumples Sumple Matthis Sumple Tree	SAMPLER INTINAL CRIONING Chorine Pasidual		ustody may delay the	NO QUILLE SE	Please fill out all
SAMPLER SIGNATURE / AFFILIATION	E E S S	E E E	processing of yo	our sample(s).	185 18	applicable areas
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ANALYSIS TO BE P		188 88	completely.
Container Sample Point No./Type			- 1 71 -	/		LAB USE ONLY
1 Air Cuttings-C-1	3/2 113050 G56	10	TPH, PH C	10/10/10 11/2		∞1 <i>A-</i> ⊆
2		+	TCLP & MCRAW	netels + Cy, Ni, Z	9	
3			A - TPH O	H, CI		
4	++++	-			2	
5				ample		
6		++-	C - TCLP	Metals		est tomorrow
7						
8	++++	++-				
9						
10		1-1	N	alisha		
[11]			Due:	3/18/10		注重的数数数数
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					AdG	Graphics Printing 570-888-0685

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10031642

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10031642

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

PAGE: 1 of 3

Horseheads, NY 14845

PO#:

TEST REPORT

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

01-047-01

RECEIVED FOR LAB BY: DLM2

DATE: 03/11/2010 13:21

Page 1 of 3

SAMPLE: Inv. Cuttings	0	Lab ID: 10031642-001B	Compo	osite		
SAMPLED BY: SG	San	Sample Time: 03/10/2010 15:00				
Test	Result	Method	Reg	Analysis Start	Analysis End	Analyst *
pH	7.37 @ 24.9°C	EPA 9045D		03/15/10 10:50	03/15/10	SMH-CV
Total Petroleum Hydrocarbons	27000 mg/Kg	EPA 1664A		03/12/10 13:50	03/15/10	DTG-CV
SAMPLE: Inv. Cuttings		Lab ID: 10031642-001C	Compo	osite		
SAMPLED BY: SG	Sample Time: 03/10/2010 15:00					
<u>Test</u> Ignitability	Result Negative AS IS	Method SW846 1030	Reg Limit	Analysis Start 03/12/10 19:00	Analysis End 03/12/10	Analyst *
Sample Note: Analysis performed	by QC Laboratories					
SAMPLE: TCLP Leachate of Inv. C	uttings	Lab ID: 10031642-001D	Compo	osite		
SAMPLED BY: SG		nple Time: 03/10/2010 15:00				
Test	Result	Method	Reg	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.2	03/14/10 8:30	03/14/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	03/12/10 14:00	03/14/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	100	03/12/10 14:00	03/14/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	1	03/12/10 14:00	03/14/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	03/12/10 14:00	03/14/10	RMD-CV
Copper - TCLP extracted	0.118 mg/L	EPA 6010B		03/12/10 14:00	03/14/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	5	03/12/10 14:00	03/14/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B		03/12/10 14:00	03/14/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	1	03/12/10 14:00	03/14/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	5	03/12/10 14:00	03/14/10	RMD-CV
Zinc - TCLP extracted	0.267 mg/L	EPA 6010B		03/12/10 14:00	03/14/10	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

Carrie M. Davis 3/15/2010 MANAGER DATE:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10031642

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10031642

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

PAGE: 2 of 3

Horseheads, NY 14845

PO#:

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

01-047-01

RECEIVED FOR LAB BY: DLM2

DATE: 03/11/2010 13:21

TEST REPORT

Page 2 of 3

PLE: TCLP Leachate of Inv. Cutt SAMPLED BY: SG	and the same of th	Lab ID: 10031642-001E ple Time: 03/10/2010 15:00	Compo	esite		
Test	Result	Method	Reg	Analysis Start	Analysis End	Analyst
Pyridine	< 0.10 mg/L	EPA 8270C	5	03/15/10 9:55	03/15/10	RHH-S
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	7.5	03/15/10 9:55	03/15/10	RHH-S
o-Cresol	< 0.10 mg/L	EPA 8270C	200	03/15/10 9:55	03/15/10	RHH-S
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	200	03/15/10 9:55	03/15/10	RHH-S
Hexachloroethane	< 0.10 mg/L	EPA 8270C	3	03/15/10 9:55	03/15/10	RHH-S
Nitrobenzene	< 0.10 mg/L	EPA 8270C	2	03/15/10 9:55	03/15/10	RHH-S
Hexachlorobutadiene.	< 0.10 mg/L	EPA 8270C	0.5	03/15/10 9:55	03/15/10	RHH-S
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	2	03/15/10 9:55	03/15/10	RHH-S
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	400	03/15/10 9:55	03/15/10	RHH-S
	0.50	EPA 8270C	100	03/15/10 9:55	03/15/10	RHH-S
Pentachlorophenol	< 0.50 mg/L	EI 7 02100	1.00			
Pentachlorophenol 2,4-Dinitrotoluene	< 0.50 mg/L < 0.10 mg/L	EPA 8270C	0.13	03/15/10 9:55	03/15/10	RHH-S
		200000000000000000000000000000000000000			03/15/10 03/15/10	
2,4-Dinitrotoluene	< 0.10 mg/L < 0.10 mg/L	EPA 8270C EPA 8270C	0.13	03/15/10 9:55		
2,4-Dinitrotoluene Hexachlorobenzene	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li	EPA 8270C EPA 8270C	0.13	03/15/10 9:55 03/15/10 9:55		
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li	EPA 8270C EPA 8270C mits	0.13 0.13 Compo	03/15/10 9:55 03/15/10 9:55		RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F	0.13 0.13	03/15/10 9:55 03/15/10 9:55		RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li gs	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00	0.13 0.13 Compo	03/15/10 9:55 03/15/10 9:55 osite	03/15/10	
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test	< 0.10 mg/L < 0.10 mg/L ide accepted recovery lings Sam Result	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method	0.13 0.13 Compo	03/15/10 9:55 03/15/10 9:55 osite Analysis Start	03/15/10 Analysis End	RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li Sam Result < 0.02 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B	0.13 0.13 Compo	03/15/10 9:55 03/15/10 9:55 osite Analysis Start 03/13/10 7:34	03/15/10 Analysis End 03/13/10	Analysi RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene 2-Butanone	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li s Sam Result < 0.02 mg/L < 0.20 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B EPA 8260B	0.13 0.13 Compo Reg Limit 0.5 200	03/15/10 9:55 03/15/10 9:55 0site Analysis Start 03/13/10 7:34 03/13/10 7:34	03/15/10 Analysis End 03/13/10 03/13/10	Analysi RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li igs Sam Result < 0.02 mg/L < 0.02 mg/L < 0.02 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B EPA 8260B EPA 8260B	0.13 0.13 Compo Reg Limit 0.5 200 0.5	03/15/10 9:55 03/15/10 9:55 0site Analysis Start 03/13/10 7:34 03/13/10 7:34	03/15/10 Analysis End 03/13/10 03/13/10 03/13/10	Analysi RHH-S RHH-S RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li ses Sam Result < 0.02 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B	0.13 0.13 Compo Req Limit 0.5 200 0.5 100	03/15/10 9:55 03/15/10 9:55 03/15/10 9:55 03/15/10 9:55 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34	03/15/10 Analysis End 03/13/10 03/13/10 03/13/10 03/13/10	Analysi RHH-S RHH-S RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li Sam Result < 0.02 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	0.13 0.13 Compo Reg Limit 0.5 200 0.5 100 6	03/15/10 9:55 03/15/10 9:55 osite Analysis Start 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34	03/15/10 Analysis End 03/13/10 03/13/10 03/13/10 03/13/10 03/13/10	Analysi RHH-S RHH-S RHH-S RHH-S
2,4-Dinitrotoluene Hexachlorobenzene Sample Note: Spike Recovery outsi PLE: ZHE Extract of Inv. Cutting SAMPLED BY: SG Test Benzene 2-Butanone Carbon tetrachloride Chlorobenzene Chloroform 1,4-Dichlorobenzene	< 0.10 mg/L < 0.10 mg/L ide accepted recovery li gs Sam Result < 0.02 mg/L	EPA 8270C EPA 8270C mits Lab ID: 10031642-001F ple Time: 03/10/2010 15:00 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	0.13 0.13 Compo Reg_Limit 0.5 200 0.5 100 6 7.5	03/15/10 9:55 03/15/10 9:55 03/15/10 9:55 03/15/10 9:55 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34 03/13/10 7:34	03/15/10 Analysis End 03/13/10 03/13/10 03/13/10 03/13/10 03/13/10 03/13/10	Analys RHH-S RHH-S RHH-S RHH-S RHH-S

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 3/15/2010 MANAGER DATE:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10031642

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10031642

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

PAGE: 3 of 3

Horseheads, NY 14845

PO#:

PHONE: (607) 562-4000 (607) 562-4001 FAX:

PWS ID#

01-047-01

RECEIVED FOR LAB BY: DLM2

DATE: 03/11/2010 13:21

TEST REPORT

Page 3 of 3

Tetrachloroethene < 0.02 mg/L **EPA 8260B** 0.7 03/13/10 7:34 03/13/10 RHH-SA Vinyl chloride < 0.02 mg/L **EPA 8260B** 0.2 03/13/10 7:34 03/13/10 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.

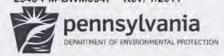
* CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

MANAGER

Carrie M. Davis

DATE:

3/15/2010



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 a	ccurately completed. A	All required	information must b	e D	EP USE ONLY
each attac	hed sheet as Form	paces provided. If addit 26R, reference the iten I sheets needs to match	n number a	nd identify the dat		ceived & General Note:
General Re	ference 287.54					
Date Prepa	red/Revised	February 11, 2011				
	SECTION	N A. CLIENT (GENE	RATOR OF	THE WASTE) IN	ORMATIO	N
Company N						
Talisman E	Energy USA Inc.					
	iary, Name of Parent	Company				PA Generator ID#
	Energy Inc.					/A
50 Pennwo	Mailing Address Line	1	Comp	any Mailing Address	Line 2	
	Address Last Line – (City	State	Zip+4	Phone	Ext
Warrendal		sity	PA	15086	(724) 814-	
Control Sense Control Services	Contact Last Name	First Name		MI		uffix
Brown		Dina				
Municipalit			Cour			
Warrendal			- 4	heny		
Contact Ph						
(724) 814-		dybrown@talism ompany Mailing Address		012		☐ Yes ☒ No
If 'No' des	cribe location of was	te generation and storag located at 2689 South Hill	e. Drill cuttin	gs are generated dur	ing natural gas	drilling operations at
containers of Municipalit	on site.	County	Bradford		State	PA
Matheipant	y Orwen			ESCRIPTION	State	FA
Residual		Residual Waste	MAGILL	LOCKIFION	Unit of	Time
Waste Cod	to a little of the control of the co	ode Description		Amount	Measure	Frame
810	Drill cuttings (oil		1.7	770	cu yd 🔲 g	
010	Drill cuttings (oil]lb ⊠t	on 🔲 One Tim
			NERAL PROP			
	Range	8.76 to		ed on analyses or kn	owledge)	
b. Phy	sical State	☐ Liquid Waste ☐ Solid (EPA Me ☐ Gas (ambient	ethod 9095)			
c. Phy	sical Appearance		h Black	Odor	Earthy/Slig	ght Petroleum
				ases of Separation	One	
		Describe each ph	ase of separ	ation. Soil and Roc	k Fragments	
		2 CHEMICAL	ANAI VSIS A	TTACHMENTS		
a. The	results of a detailed	chemical characterization	CAPACIFIC CARDING CO. I. S. S. S. S. S.	AND IN PROCESSION OF THE PARTY OF THE PARTY.	the	⊠ Yes □ No
inst	tructions, is attached				12	
b. Ad	etailed description o	f the waste sampling me	thod is attac	hed.		Yes □ No.
	e quality assurance/q ached.	uality control procedure	s employed l	by the laboratory(ies	s) is	⊠ Yes □ No
d. The	results of the hazar	dous waste determinatio	n is attached	1.		⊠ Yes □ No
	pplicable, a detailed of of actual chemical a	explanation supporting unalysis is attached.	use of genera	ator knowledge in	Yes	□ No ⊠ N/

	and the second second	3. PROCESS DESCRIPTION	N & SCHEMATIC ATTAC	CHMENTS							
a.	A detailed description of the the waste, as specified in t	ne manufacturing and/or p he instructions, is attache	collution control proceed.	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 of			n for Yes	☐ No		N/A				
	SECT	TION C. MANAGEN	IENT OF RESIDU	JAL WASTE							
-			DISPOSAL FACILITY(I								
The a	area below (ad.) will accomm	odate the identification o	f two facilities. Attach	additional sheets	if necessar	y.					
a.	Solid waste permit number 8-4630-00010	(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										
	Address City State ZIP	Painted Post	NY	14870							
	Municipality	Erwin Twp	County	Steuben							
c.	Facility Contact Name Title	Joseph Boyles									
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com						
d.	Volume of waste shipped t 1,247	o processing or disposal cu yd gal	facility in the previous)						
a.	Solid waste permit number 9-0232-00003	(s) for processing or disp	osal facility being util	lized.							
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 Title	Larry Shilling									
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com						
d.	Volume of waste shipped t	o processing or disposal	facility in the previous)						
		2. BEN	EFICIAL USE				100				
a.	Has the waste been approv	ved for beneficial use?			Yes		No				
	If "Yes", list the general pe	rmit number or approval	number.								
b.	Volume of waste beneficia	ly used in the provious w	ar								

a.		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS	
		he manufacturing and/or pollution control processes producing Yes the instructions, is attached.	No
b.	A schematic of the manufa as specified in the instruct		No
c.		ion submitted are confidential, the substantiation for Yes No described in the instructions, is attached.	N/A
	SECT	TION C. MANAGEMENT OF RESIDUAL WASTE	
		1. PROCESSING OR DISPOSAL FACILITY(IES)	
The a	area below (ad.) will accomm	modate the identification of two facilities. Attach additional sheets if necessary.	
a.	Solid waste permit number 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 t	to processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☑ ton (check one)	
a.	Solid waste permit number 100361	er(s) for processing or disposal facility being utilized.	
	100301		
b.	Facility Name	McKean County Landfill	-
b.		McKean County Landfill 19 Ness Lane	
b.	Facility Name		
b.	Facility Name Address Line 1	19 Ness Lane Kane PA 16735	
b.	Facility Name Address Line 1 Address Line 1	19 Ness Lane	
	Facility Name Address Line 1 Address Line 1 Address City State ZIP	19 Ness Lane Kane PA 16735	
	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	19 Ness Lane Kane PA 16735 Sergeant Twp County McKean	
b.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	19 Ness Lane Kane PA 16735 Sergeant Twp County McKean	
	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	19 Ness Lane Kane PA 16735 Sergeant Twp County McKean Mike Manderfeld	
C.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t	19 Ness Lane Kane PA 16735 Sergeant Twp County McKean Mike Manderfeld (814) 778-9931 Email Address manderfeld@gmail.com to processing or disposal facility 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 t	19 Ness Lane	No
C.	Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 154 Has the waste been approximately	19 Ness Lane	No

			SECTION D. CERTIFICATION
Repo obtai	ort and all attached docu ining the information, I yledge. I understand that	iments verify t 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 applica	ble:	
	I certify the information and has not char	30 m. July 2007	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 char		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 for the year and l		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Nam	e of Responsible Official		Title Environmental Specialist
Dina	Brown	-	1,
Sign	ature	5	182 Date 2/25/11
		,	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114174

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#:

10114174

PAGE:

1 of 2

PO#:

AF 78011

TEST REPORT

PHONE: FAX:

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

PWS ID#

05-006

RECEIVED FOR LAB BY: CMS DATE: 11/30/2010 11:00 Page 1 of 2 SAMPLE: Gel Cuttings Lab ID: 10114174-001A Composite SAMPLED BY: SG Sample Time: 11/29/2010 12:40 SLOQ Test Result Method Analysis End Analyst* Analysis Start Total Petroleum Hydrocarbons < 195 mg/Kg **EPA 9071** 195 12/07/10 14:30 12/07/10 Sample Note: Analysis performed by Microbac Laboratories, Inc.-Erle Division Lab ID: 10114174-001B SAMPLE: Gel Cuttings Composite SAMPLED BY: SG Sample Time: 11/29/2010 12:40 SLOQ Analysis Start Test Analysis End Analyst* Result Method Moisture 29.8 % Moisture Calc. 0.01 11/30/10 9:40 12/01/10 NFM-SA Free Liquid **EPA 9095A** < 0.1 % 11/30/10 14:05 11/30/10 IC-SA **EPA 9045C** 11/30/10 8:00 pH 8.76@22.8°C 11/30/10 NFM-SA SAMPLE: Gel Cuttings Lab ID: 10114174-001C Composite SAMPLED BY: SG Sample Time: 11/29/2010 12:40 SLOQ Test Result Method **Analysis Start** Analysis End Analyst* Sodium 543 mg/Kg **EPA 6010B** 85.1 12/01/10 9:00 12/01/10 JRA-CV Chloride 11/30/10 14:49 12/01/10 HDP-CV 316 mg/Kg EPA 300.0 45.7 Lab ID: 10114174-001E SAMPLE: TCLP Leachate Of Gel Cuttings Composite SAMPLED BY: SG Sample Time: 12/01/2010 7:00 SLOQ Analysis Start Result Analysis End Analyst* Test Method

EPA 7470A

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

EPA 6010B

0.0008

0.500

10.00 0.100

0.500

0.100

0.500

REMARKS:

MANAGER

Mercury - TCLP extracted

Arsenic - TCLP extracted

Barium - TCLP extracted

Cadmium - TCLP extracted

Chromium - TCLP extracted

Copper - TCLP extracted

Lead - TCLP extracted

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< 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

Due to matrix bias, spike recovery was outside acceptance limits

Carrie M. Davis

DATE:

12/01/10 12:50

12/01/10 12:30

12/01/10 12:30

12/01/10 12:30

12/01/10 12:30

12/01/10 12:30

12/01/10 12:30

12/9/2010

12/01/10

12/01/10

12/01/10

12/01/10

12/01/10

12/01/10

12/01/10

RMD-CV

JRA-CV

JRA-CV

JRA-CV

JRA-CV

JRA-CV

JRA-CV

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10114174

12/01/10

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

SEND DATA TO:

NAME: Steve Gridley WO#:

10114174

COMPANY: ADDRESS:

Talisman Energy USA, Inc.

PAGE:

2 of 2

337 Daniel Zenker Dr Horseheads, NY 14845

PO#:

0.200

AF 78011

PHONE:

FAX:

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

TEST REPORT

PWS ID#

12/01/10 12:30

05-006

Zinc - TCLP extracted

RECEIVED FOR LAB BY: CMS DATE: 11/30/2010 11:00 Page 2 of 2 GSR-CV Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 12/01/10 12:30 12/02/10 Z 12/01/10 Selenium - TCLP extracted < 0.500 mg/L 0.500 12/01/10 12:30 JRA-CV **EPA 6010B** Silver - TCLP extracted 12/01/10 12:30 12/01/10 JRA-CV < 0.100 mg/L **EPA 6010B** 0.100 JRA-CV

EPA 6010B

< 0.200 mg/L

REMARKS:

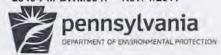
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CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Z Due to matrix bias, spike recovery was outside acceptance limits

MANAGER	Carri M. Davis	DATE:	12/9/2010
	and it.		

PAGE 1 OF 1 CHAIN OF CUSTODY REPORT TO: Talisman / UEG 140 ARE SPECIAL DETECTION LIMITS W/O#: 10114174 geowetlands@aol.com NEEDED: YES / NO REFRIGERATE SAMPLES RESULTS ARE BEING USED FOR: IF YES, PLEASE ATTACH AFTER COLLECTION NYDEC PADEP NYDOH DRINKING WATER SLUDGE IS A QC PACKAGE NEEDED? GROUND WATER SO SOIL CONTACT Steve Gridley SURFACE WATER HAZARDOUS LANDFILL YES NO TRANSPORT WASTE WATER OTHER PERSONAL OTHER DEIONIZED WATER DI DISTILLED WATER IF YES, PLEASE ATTACH REQUIREMENTS TO 607-731-0145 SAMOLE TIPE. ORUB/COMPOSITE PRESERVATIVE ADDED ON RECEIPT LABORATORY HYDROCHLORIC ACID SODIUM HYDROXIDE FAX# SULFURIC ACID ASCORBIC ACID IN COOLER BILL TO: Talisman NITRIC ACID ACETIC ACID WITH ICE COMPOSITED ON RECEIPT SODIUM SULFITE AMMONIUM CHLORIDE SODIUM THIOSULFATE ZINC ACETATE NONE MERCURIC CHLORIDE AF 7801 SAMPLE MATRIX Please fill out all 05-00 4 An incomplete chain of custody may delay the applicable areas processing of your sample(s). SAMPLER SIGNATURE / AFFILIATION completely UEG **ANALYSIS TO BE PERFORMED** LAB USE ONLY (PER CONTAINER) 1/69 1240 50 50 Gel Cuttings pH, Chlorides, Sodium TCLP 8 RCRA Metals + Cu, Ni, Zn Free Liquids / % Moisture B-wetchem C- Anion metals project D- Total Scample E- TCLP Metals Perform BTEX ONLY IF the TPH exceeds 100,000 mg/Kg HOUR TURNAROUND 9 DAY TURNAROUND 10 ue 12/3/10 क्रा का माना प्रतिस्था प्रतिस्था । विकास समिति । विकास ARRIVAL ON IGE RELINQUISHED B RECEIVED BY: TIME: 1/1301/0 1100 RELINQUISHED BY DATE: TIME: RECEIVED BY: DATE: TIME: RELINQUISHED BY: DATE: TIME: RECEIVED BY



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

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

	ust be fully and accurately				USE O	
each attache	oly printed in the spaces pro ed sheet as Form 26R, refe e date on attached sheets n	rence the item number	er and identify the date		ved & Ge	eneral Notes
General Refe	rence 287.54					
Date Prepare	d/Revised Februa	ry 11, 2011				
	SECTION A. CL	IENT (GENERATOR	OF THE WASTE) INF	ORMATION		
Company Na						
	ergy USA Inc. y, Name of Parent Company			EPA	Gener	ator ID#
Talisman En	ergy Inc.			N/A		20000000
	iling Address Line 1	Co	mpany Mailing Address	Line 2		
50 Pennwoo Company Ad	dress Last Line – City	State	Zip+4	Phone		Ext
Warrendale		PA	15086	(724) 814-53	800	0.81
	ntact Last Name	First Name	MI	Suff	ix	
Brown Municipality		Dina	ounty		-	
Warrendale			llegheny			
Contact Phor		ntact Email Address				
(724) 814-53	generated at the Company M	brown@talismanusa.co			Yes	⊠ No
If 'No', descri	be location of waste general	ion and storage. Drill co	uttings are generated durin		lling ope	erations at
	-067) well pad site located at 9	45 Hulslander Road, Col	umbia Township, Bradford	County, PA. Wa	aste is s	tored in
containers on Municipality	Columbia Columbia	County Bradfo	rd	State	PA	
		CTION B. WAST				
Residual	Residual \		AVIII SA	Unit of		Time
Waste Code	Code Desc	ription	Amount	Measure cu yd gal	-	Frame
810	Drill cuttings (oil and gas)		4 1114	lb ⊠ ton		One Time
		1. GENERAL PI				
a. pH Ra			based on analyses or know	vledge)		
b. Physi	cal State	Liquid Waste (EPA Met Solid (EPA Method 909 Gas (ambient temperat	5)			
c. Physi		lor Greyish Black mber of Solid or Liquid	Odor	Earthy/Slight One	Petrol	eum
			eparation. Soil and Rock			
		2. CHEMICAL ANALYS	IS ATTACHMENTS			
	esults of a detailed chemical actions, is attached.	characterization of the	waste, as described in th	ie 🗵	Yes	□ No
	ailed description of the wast	e sampling method is a	ttached.	\boxtimes		□ No
c. The q	unlity accurance/quality con				V	
attaci		trol procedures employ	ed by the laboratory(ies)	is	Yes	□ No
d. The re		e determination is attac	ched.	is 🗵	Yes	□ No □ No □ N/A

		3. PROCESS DESCRIPTION				
a.	A detailed description of the the waste, as specified in t	e manufacturing and/or p he instructions, is attache	ollution control proced.	esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
c.	If portions of the information a confidentiality claim, as o	on submitted are confident described in the instruction	itial, the substantiations, is attached.	on for Yes	☐ No	⊠ N/A
	SECT	TION C. MANAGEM	IENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(I			
The a	area below (ad.) will accomm				if necessary	<i>/</i> .
a.	Solid waste permit number 9-0232-00003	(s) for processing or disp	osal facility being uti	lized.		
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 Title	Larry Shilling				
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped t 2,180	o processing or disposal cu yd gal	facility in the previou)	
a.	Solid waste permit number 8-4630-00010	(s) for processing or disp	osal facility being uti	lized.		
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 Title	Joseph Boyles				
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com	
d.	Volume of waste shipped t 1,256	o processing or disposal cuyd gal	facility in the previou)	
		2. BEN	EFICIAL USE			
a.	Has the waste been approv	ed for beneficial use?			Yes	⊠ No
	If "Yes", list the general pe					
b.	Volume of waste beneficial	ly used in the previous ye	ear.	n (check one		

		3. PROCESS DESCRIPTION	& SCHEMATIC ATTAC	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		ntrol processes proc	ducing the waste,	⊠ Yes	□ No
C.	If portions of the information a confidentiality claim, as of			n for Yes	☐ No	⊠ N/A
	SECT	TION C. MANAGEME	NT OF RESIDU	JAL WASTE		
		1. PROCESSING OR D	ISPOSAL FACILITY(IE	ES)	The same	
The a	area below (ad.) will accomm	odate the identification of t	wo facilities. Attach	additional sheets	if necessary	4
a.	Solid waste permit number 100361	(s) for processing or dispo	sal facility being util	ized.		
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 Title	Mike Manderfeld				
	Phone	(814) 778-9931	Email Address	manderfeld@gm	nail.com	
d.	Volume of waste shipped t 598	o processing or disposal fa	cility in the previous	AND THE RESERVE OF THE PARTY OF)	
a.	Solid waste permit number 100945	(s) for processing or dispo	sal facility being util	lized.		
b.	Facility Name	Cumberland County L	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@iswast	e.com	
d.	Volume of waste shipped t 69	o processing or disposal fa	cility in the previous)	
			FICIAL USE			
a.	Has the waste been approv	ved for beneficial use?			Yes	⊠ No
	If "Yes", list the general pe	rmit number or approval nu	ımber.			
b.	Volume of waste beneficial	lly used in the previous yea	r.	n (check one)	

		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS		
a.		e manufacturing and/or pollution control processes producing ne instructions, is attached.	Yes] No
b.	A schematic of the manufa as specified in the instruct	cturing and/or pollution control processes producing the waste, ons, is attached.	Yes [] No
C.		n submitted are confidential, the substantiation for Yes escribed in the instructions, is attached.	No 🗵] N/A
	SECT	ION C. MANAGEMENT OF RESIDUAL WASTE		
The	and below to all and the second	 PROCESSING OR DISPOSAL FACILITY(IES) odate the identification of two facilities. Attach additional sheets if needs to be a second or control of the co		
2000			cessary.	
a.	8-0728-00004	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	a.com	
d.	Volume of waste shipped to	processing or disposal facility in the previous year. cu yd		
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 t	processing or disposal facility in the previous year.		
u.	volume of waste simpled to	cu yd gal lb ton (check one)		
	The second second	2. BENEFICIAL USE		7
a.	Has the waste been approv	The Allen Control of the Allen Control of the Contr	Yes 🗵	No
		mit number or approval number.		
b.	Volume of waste beneficial	y used in the previous year. cu yd gal lb ton (check one)		

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)

Title

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10092049

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#: 10092049

PAGE: 1 of 2

PO#: AF77903

PWS ID#

(607) 562-4000

PHONE: FAX: (607) 562-4001

01H

RECEIVED FOR LAB BY: TJC	DATE:	09/13/2010 17:12			Pa	ige 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG		ab ID: 10092049-001A Time: 09/13/2010 14:33	Grab			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 380 mg/Kg	EPA 9071	380	09/19/10 10:20	09/19/10	
Sample Note: Analysis performed			20.0			
SAMPLE: Air Cuttings		ab ID: 10092049-001B	Grab			
SAMPLED BY: SG	Sample	Time: 09/13/2010 14:33	SLOQ			
Test	Result	Method	SLOW	Analysis Start	Analysis End	Analyst *
Moisture	9.60 %	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 15:10	09/14/10	IC-SA
рН	9.50@20.3°C	EPA 9045C		09/14/10 14:26	09/14/10	MED-SA
SAMPLE: Air Cuttings	L	ab ID: 10092049-001C	Grab			
SAMPLED BY: SG	Sample	Time: 09/13/2010 14:33	SLOQ			
Test	Result	Method		Analysis Start	Analysis End	Analyst *
Sodium	686 mg/Kg-dry	EPA 6010B	125	09/16/10 8:30	09/16/10	RMD-CV
Chloride	92.6 mg/Kg-dry	EPA 300.0	55.3	09/15/10 15:09	09/16/10	HDP-CV
Percent Moisture	9.6 %	SM2540G		09/14/10 10:00	09/15/10	MED-SA
SAMPLE: TCLP Leachate of Air Cu	ttings	ab ID: 10092049-001E	Grab			
SAMPLED BY: SG	Sample	Time: 09/15/2010 9:00	01.00			
Test	Result	Method	SLOQ	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
DEMARKS.						

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:

9/20/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10092049

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10092049

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

PAGE: 2 of 2

PO#: AF77903

Horseheads, NY 14845

TEST REPORT

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

01H RECEIVED FOR LAB BY: TJC	DAT	E: 09/1	3/2010 17:12			P	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	39.1 mg/L	L	EPA 6010B	0.200	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

Value above calibration range but within annually verified linear range

MANAGER

Carrie M. Davis

DATE:

9/20/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10104052

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#:

10104052

PAGE:

1 of 1

PO#:

AF77904

PWS ID#

PHONE: FAX:

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

03-067

RECEIVED FOR LAB BY: SCP	DAT	E: 10/27/2010 14:15			Pa	age 1 of 1
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Sar	Lab ID: 10104052-001A nple Time: 10/26/2010 13:18	Grab			
Test Total Petroleum Hydrocarbons Sample Note: Analysis performed	Result 4900 mg/Kg	Method EPA 9071	170	Analysis Start 10/28/10 14:20	Analysis End 10/28/10	Analyst *
SAMPLE: Inv. Cuttings	4,	Lab ID: 10104052-001B	Grab			
SAMPLED BY: SG	Sar	nple Time: 10/26/2010 13:18	SLOO			
Test	Result	Method		Analysis Start	Analysis End	Analyst*
Moisture	29.2 %	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 11:00	10/25/10	IC-SA
pH	10.93@22.4°C	EPA 9045C		11/01/10 14:00	11/01/10	NFM-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttings	Lab ID: 10104052-001D	Grab	100		
SAMPLED BY: SG		nple Time: 10/28/2010 8:00	SLOQ			
Test	Result	Method	<u>aroe</u>	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	< 0.100 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
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	10/30/10 13:40	10/31/10	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

11/1/2010 DATE: MANAGER

Talisman / UEG							10104 101010-			
geowetlands@aol.com							W/O#: 10104052			ECTION LIMITS
twollin@rallysolutions.ca			RATE S	AMPLE TION	s	10			NEEDED: YES	
CONTACT Steve Gridley	,	TD A N.C	SPORT			S S	V GROUND WATER SO SOIL. V SURFACE WATER HZ HAZARDOUS LANDI			S NO
H# 607-731-0145		T			1	D	DEIGNIZED WATER DI DISTRI ED WATER DEDSONIAL OTHER			TACH REQUIREMENT
AX#		ABOR IN CO	ATOR'	Y	/	15	H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID		/ /5/	
CONTAINER / SAMPLING POINT		WITH	I ICE	SAME MATRIX	S. TENPE. GO.	PRE- INTING COMPOSITE	N NITRIC ACID SO 3 SODIUM SULFITE Thia SODIUM THIOSULFATE NONE An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED	Sold Street Stre	TAB I	Pease fill out all pplicable areas completely
	1920	A CONTRACTOR	1	C	56		(PER CONTAINER)		/ LAB	SE ONLY
2	/ 100	110	1		Ť	/-	pH			
3							TCLP 8 RCRA Metals + Cu, Ni, Zn		TI	
							Free Liquids / % Molsture			
A-TPH							BTEX	7 14		
B. pH, Free Liguido, 8	mai	tw	العا				TCLP 9260 / 6270 ONLY IF the TPH			
C T Sample							exceeds 1/20,000 mg/Kg			
8 D. TCLP Metals.	C	4.1	Di, i	in				. 推擊		
							72 HOUR TURNAROUND			
0							DAY TURNAROUND			
1										
DELIVERED BY		7 Y		1	ir.	7 - 4/4	TÉMPÉRATURE UPON RÉGÉIP	19	°C ARR	AL ONICE Y
RELINATISHED BY:	-	To	ATE:	271/		TIME:	7/5 RECEIVED BY:		DATE:	TIME:
ELINQUISHED BY:		0	ATE:	1	1	TIME:	RECEIVED BY:		DATE:	TIME:
RELINQUISHED BY:	-	D	ATE:		-	TIME:	RECEIVED BY:	-	DATE:	o TIME: 14:1

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10104066

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#:

10104066

PAGE:

1 of 1

PO#:

AF77903

TEST REPORT

PWS ID#

PHONE:

(607) 731-0145

FAX:

(607) 562-4001

03-067

RECEIVED FOR LAB BY: SCP	DAT	E: 10/2	7/2010 14:15			Pa	age 1 of 1
SAMPLE: Inv. Clean Soil SAMPLED BY: LS	Sar		10104066-001A 10/12/2010 11:40	Grab			
	Sai	npie inne.	10/12/2010 11:40	SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 150 mg/Kg		EPA 9071	150	10/28/10 14:20	10/28/10	
Sample Note: Analysis performed	by Microbac Laboratori	es, IncEri	e Division				
SAMPLE: Inv. Clean Soil		Lab ID:	10104066-001B	Grab			
SAMPLED BY: LS	San	nple Time:	10/12/2010 11:40				
Test	Daniele		Maked	SLOQ	Anatomic Ctarl	Assessed Food	tankar e
Moisture	Result 5.65 %	K	Method Moisture Calc.	0.01	Analysis Start 10/29/10 10:30	Analysis End	Analyst*
Free Liquid	< 0.1 %		EPA 9095A	0.01	10/28/10 10:30	10/28/10	IC-SA
pH	8.58@22.4°C		EPA 9045C	.0.1	11/01/10 14:00	11/01/10	NFM-SA
	0.00@22.4 0				11101110 14.00	11/01/10	IN WHO
SAMPLE: Inv. Clean Soil		Lab ID:	10104066-001D	Grab			
SAMPLED BY: LS	San	nple Time:	10/28/2010 8:00	01.00			
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	140	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	< 0.100 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
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	10/30/10 13:40	10/31/10	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.

	/1		5
MANAGER	Carrie	M.	Davis
ALC: 10 - 10 - 10 - 10 - 10 - 10 - 10 - 10	- VVVVV		

DATE:

11/1/2010

ELINQUISHED BY: (DATE:	TIME:	RECEIVED BY:	_	DATE:	10 TIME: 14:15 Ad Graphics Printing 570-886
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ELINQUISHED BY:	DATE: 1012611	TIME:	1745 RECEIVED BY: Or		DATE: 126	10 TIME: 345
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0			DAY TURNAROUND			
ig ree in ours			72 HOUR TURNAROUND			18、发精。
B-pH, free Liquids, 1.1 C-total Sample D-tclPmetals						
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Bank free Liquids .	misture		TCLP 9208 + 9270 ONLY IF the TPH	7.7 11.7	76 (10-11) 23 (10-11) 15 (10-11)	
A- TPH			Free Liquids / % Moisture			
			TCLP 8 RCRA Metals + Cu, Ni, Zn			
		1	pH '			
Investinge Clean Soil	1/2 1/050 C	15 N	TPH			$-\infty$ A
TALE TO: Talisman AF 77903 TOTAL TO: Talisman ON TALE TO: Talisman ON TALE TALE TO TALE TO TALE TO TALE TO TALE TO TALE TALE TO TALE TALE TALE TALE TALE TALE TALE TALE	WITH ICE Some England Some Commerce Some Com	SAMPLER MITTILL	N NITRIC ACID SO SODIUM SULFITE Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)	COMPOSITED ON RECO.	LAB LA LECE LE LA	Pease fill out all applicable areas completely
X#	LABORATORY IN COOLER	//	H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID		1 / 50	
## 607-731-0145	70	1/1	WW WASTE WATER OTHER DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTH	IER	IFYES, PLEASE	TACH REQUIREMEN
ONTACT Steve Gridley	TRANSPORT	/	SW GROUND WATER SO SOIL SW SURFACE WATER HZ HAZARDOUS LAN	DEC PADEP		ACKAGE NEEDED?
wollin@rallysolutions.ca	REFRIGERATE SAMPLI AFTER COLLECTION	ES	RESULTS ARE BE	ING USED FOR:	IFYES, PLEASE	TACH
eowetlands@aol.com			W/O#. 10104000		NEEDED: YES	/⊉NO
Talisman / UEG			W/O#: 10104066		ARE SPECIAL D	TECTION LIMITS

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120066

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 2

PO#: AF77905

10120066

PHONE: FAX:

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

PWS ID#

WO#:

03-067

RECEIVED FOR LAB BY: CMS	DAT	E: 12/	01/2010 11:30			Pa	age 1 of 2
SAMPLE: Air Cuttings SAMPLED BY: SG	Sar		D: 10120066-001A e: 10/27/2010 13:00	Compo	site		
Test Total Petroleum Hydrocarbons Sample Note: Analysis performed	Result <108 mg/Kg by Microbac Laboratori	к es, IncE	Method EPA 9071 Frie Division	170	Analysis Start 12/11/10 9:40	Analysis End 12/11/10	Analyst *
SAMPLE: Air Cuttings		Lab II	D; 10120066-001B	Compo	site		
SAMPLED BY: SG	Sar	nple Tim	e: 10/27/2010 13:00	SLOQ			
<u>Test</u>	Result		Method		Analysis Start	Analysis End	Analyst*
Moisture	12.9 %	K	Moisture Calc.	0.01	12/02/10 8:30	12/03/10	IC-SA
Free Liquid	< 0.1 %	K	EPA 9095A	0.1	12/02/10 8:05	12/02/10	IC-SA
pH	5.40@20.7°C		EPA 9045C		12/03/10 8:00	12/03/10	NFM-SA
SAMPLE: Air Cuttings		Lab II	D: 10120066-001C	Compo	site		
SAMPLED BY: SG	Sar	nple Tim	e: 10/27/2010 13:00	SLOQ			
Test	Result		Method	SLOG	Analysis Start	Analysis End	Analyst*
Sodium	< 80.4 mg/Kg		EPA 6010B	80.4	12/02/10 9:40	12/03/10	GSR-CV
Chloride	< 49.1 mg/Kg	K	EPA 300.0	49.1	12/02/10 14:38	12/03/10	HDP-CV
SAMPLE: TCLP Leachate of Air Cu	ttings	Lab II	D: 10120066-001E	Compo	site		
SAMPLED BY: SG		nple Time	e: 12/02/2010 8:00				
+	D		kanan na	SLOQ	A CONTRACTOR OFFICE	Applicate Fee	Annihm +
Test Mercury - TCLP extracted	Result < 0.0008 mg/L		Method EPA 7470A	0.0008	Analysis Start 12/02/10 9:00	Analysis End 12/03/10	Analyst* KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	12/03/10 9:15	12/03/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	12/03/10 9:15	12/03/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/03/10 9:15	12/03/10	GSR-CV
Chromium - TCLP extracted			EPA 6010B	0.100	12/03/10 9:15	12/03/10	GSR-CV
Chromium - I CLP extracted	< 0.500 mg/L		ELW OO IOR	0.000	12/03/10 8:15	12/03/10	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
- K Sample was received past holding time.
- Z Due to matrix blas, spike recovery was outside acceptance limits

MANAGER Carrie M. Davis DATE: 12/14/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10120066

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#:

10120066

PAGE:

2 of 2

PO#

AF77905

PHONE:

FAX:

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

TEST REPORT

PWS ID#

03-067 RECEIVED FOR LAB BY: CMS	DAT	E: 12	2/01/2010 11:30			P	age 2 of 2
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	12/03/10 9:15	12/03/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/03/10 9:15	12/03/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	Z	EPA 6010B	0.500	12/03/10 9:15	12/03/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	12/03/10 9:15	12/03/10	GSR-CV
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	12/03/10 9:15	12/03/10	GSR-CV

REMARKS:

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Sample was received past holding time.

Due to matrix blas, spike recovery was outside acceptance limits

Carrie M. Davis 12/14/2010 DATE: MANAGER

CHAIN OF CUSTODY					PAGE1	OF1
REPORT TO: Talisman / UEG				B40		
geowetlands@aol.com				0.10	ARE SPECIAL DETECT	
goonouando@donoom	DEEDIG	W/O#	: 10120066		NEEDED: □YES /	
	REFRIG AFTER C			RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTAC	Н
	(4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (4 (10	W DRINKING WATER SI. SLUDGE W GROUND WATER SO SOIL	NYDOH NYDEC PADER	IS A QC PACKAG	GE NEEDED?
CONTACT Steve Gridley	TRANSPORT	/ SI		LANDFILL	□YES €	⊒ NO
PH# 607-731-0145	70	/ D	E DEIONIZED WATER DI DISTILLED WA	TER PERSONAL OTHER	IFYES, PLEASE ATTACK	H REQUIREMENTS
FAX#	LABORATORY IN COOLER	1/5	H HYDROCHLORIC ACID OH S SULFURIC ACID AS	SODIUM HYDROXIDE ASCORBIC ACID	/ / [
BILL TO: Talisman	WITH ICE	1 Odno	N NITRIC ACID AC SO, SODIUM SULFITE NH,	ACETIC ACID AMMONIUM CHLORIDE	JON RECO	
PO# AF.77905	1/5	7 / 8 / 0	Thio SODIUM THIOSULFATE ZN NONE Hg	ZINC ACETATE MERCURIC CHLORIDE	3/3/	20-00-0
SCRIPTION 67	WINDLIN	WATER SE	An incomplete chain of cu	istody may delay the	Please applica	e fill out all able areas
SAMPLER SIGNATURE / AFFILIATION	7 8 8	1.69 LES		13/	con	npletely
CONTAINER SAMPLING POINT	DATE SAMPLED TIME OF SAMPLING	SAMPLE TYPE, GRAB/COMPOSITE	An incomplete chain of cu processing of you ANALYSIS TO BE PERFOR (PER CONTAINER)	AMMONIUM CHLORIDE ZINC ACETATE MERCURIC CHLORIDE Istody may delay the ir sample(s).	Please applica con	ONLY
1 Air Cuttings		5 80 N	TPH		e de mes	
2			pH, Chlorides, Sodium			
3			TCLP 8 RCRA Metals + Cu,	Ni, Zn		
4 A-TPH			Free Liquids / % Moisture			
5 B-wet chem						
6 C-Anions Metals			Perform BTEX ONLY IF the	TPH		
6 C-Anions, Metals 7 D-Total Sample 8 E-TCLP Metals			exceeds 100,000 mg/Kg			
8 E-TCLP Metals						
9			72 HOUR TURNA	ROUND		
10			DAY TURNARO	DUND		
11			due 12/3/10			
AS USE ONLY SEE SEE SEE SEE SEE SEE SEE SEE SEE SE			1/10	ประเทศ (ค.ศ. ค.ศ. ค.ศ. ค.ศ. ค.ศ. ค.ศ. ค.ศ. ค.	SO ABBIVAL	
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Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121663

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

SEND DATA TO:

COMPANY:

NAME: Dina Brown

Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

Horseheads, NY 14845

TEST REPORT

1405

PAGE: 1 of 3

PO#: AF77906

10121663

PWS ID#

WO#:

PHONE:

(607) 562-4000

FAX: (607) 562-4001

RECEIVED FOR LAB BY: RML DATE: 12/09/2010 15:45 Page 1 of 3 Lab ID: 10121663-001A Grab SAMPLE: Air or Gel Cuttings SAMPLED BY: SG Sample Time: 12/08/2010 18:17 SLOQ Analysis Start Analysis End Analyst* Test Result Method Neg ASIS °F 12/15/10 SW846 1030 12/15/10 13:30 Ignitability Sample Note: Analysis performed by QC Laboratories Lab ID: 10121663-001C Grab SAMPLE: Air or Gel Cuttings SAMPLED BY: SG Sample Time: 12/08/2010 18:17 SLOQ Analysis Start Result Method Analysis End Analyst * Test 12/13/10 8:56 12/14/10 HDP-CV Cyanide, Reactive < 0.2 mg/Kg SW 7.3.3.2 0.2 12/14/10 Reactive Sulfide 580 mg/Kg SW846 7.3 16 12/14/10 12:30 LTW-CV Lab ID: 10121663-001D SAMPLE: Air or Gel Cuttings Grab SAMPLED BY: SG Sample Time: 12/08/2010 18:17 SLOQ Analysis End **Analysis Start** Analyst * Method Test Result SM2540B 0.10 12/10/10 17:00 12/13/10 IC-SA % Solids 58.92 % Waht. Total Volatile Solids 26.73 % Wght. **EPA 160.4** 0.01 12/10/10 8:00 12/14/10 NFM-SA Grab SAMPLE: TCLP Leachate of Air or Gel Cuttings Lab ID: 10121663-001F SAMPLED BY: SG Sample Time: 12/11/2010 12:45 SLOQ Result Method Analysis Start Analysis End Analyst * Test < 0.10 mg/L **EPA 8270C** 0.10 12/14/10 8:37 12/14/10 RHH-SA Pyridine 12/14/10 8:37 12/14/10 RHH-SA 1,4-Dichlorobenzene < 0.10 mg/L **EPA 8270C** 0.10 12/14/10 8:37 12/14/10 RHH-SA **EPA 8270C** 0.10 o-Cresol < 0.10 mg/L < 0.10 mg/L **EPA 8270C** 0.10 12/14/10 8:37 12/14/10 RHH-SA p-Cresol/m-Cresol RHH-SA **EPA 8270C** 0.10 12/14/10 8:37 12/14/10 < 0.10 mg/L Hexachloroethane RHH-SA 12/14/10 **EPA 8270C** 0.10 12/14/10 8:37 Nitrobenzene < 0.10 mg/L **EPA 8270C** 0.10 12/14/10 8:37 12/14/10 RHH-SA < 0.10 mg/L Hexachlorobutadiene

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

MANAGER	Carri M. Davis	DATE:	12/16/2010
MICHALOCIA	and M. Oates		

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121663

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#: 10121663

PAGE: 2 of 3

PO#: AF77906

PWS ID#

PHONE: FAX:

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

CEIVED FOR LAB BY: RML	D	ATE: 12/09/2010 15:45			p	age 2 of 3
SEIVED I ON EAD DI. NIVE		ATE: 12/09/2010 10:49			1	age 2 01 3
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
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
APLE: TCLP Leachate of Air or G	el Cuttings	Lab ID: 10121663-001H	Grab			
SAMPLED BY: SG		Sample Time: 12/11/2010 12:45	SLOQ			

Analysis End Analyst* Result Method Analysis Start Test 12/14/10 8:00 12/14/10 SM4500H+B SG-SA pH 5.86@16.7°C

SAMPLE: ZHE Extract of Air or Gel Cuttings	Lab ID: 10121663-001I	Grab
SAMPLED BY: SG	Sample Time: 12/11/2010 12:45	

D: 10121663-001I Grab
me: 12/11/2010 12:45 SLOQ
Method Analysis Start Analysis End Analyst *
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
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EPA 8260B 0.0250 12/13/10 8:11 12/13/10 CTM-SA
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
- Analyte detected in the associated Method Blank
- Due to matrix effects, not all quality control parameters met acceptance criteria

MANAGER	Carrie M. Davisi	DATE:	12/16/2010
MANAGER	Carrie M. Davis	- D/11-	12/10/2010

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121663

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#: 10121663

PAGE: 3 of 3

PO#: AF77906

PWS ID#

PHONE: FAX:

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

TEST REPORT

RECEIVED FO	OR LAB BY: RML	DAT	E: 12/0	9/2010 15:45			Pa	ige 3 of 3
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: AST	TM Extract of Air or G	iel Cuttings	Lab ID	: 10121663-001J	Grab			
SAMPLED	BY: SG	Sar	mple Time	: 12/09/2010 11:15	SLOQ			
Test		Result		Method	-	Analysis Start	Analysis End	Analyst*
Chemical C	Dxygen Demand	42 mg/L	8	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: TCL	P Leachate of Air or	Gel Cuttings	Lab ID	: 10121663-001K	Grab			
SAMPLED	BY: SG	Sar	mple Time	: 09/15/2010 9:00	SLOQ			
Test		Result		Method		Analysis Start	Analysis End	Analyst *
Strontium -	TCLP extracted	1.24 mg/L		EPA 6010B	0.050	09/16/10 8:00	09/16/10	RMD-CV
Sample	Note: Sample for TCLP	extracted Strontium was	received o	on 9/13/10 at 17:12 b	y TJC.			
SAMPLE: AST	TM Extract of Air or G	iel Cuttings	Lab ID	: 10121663-001L	Grab			
SAMPLED	BY: SG	Sar	mple Time	: 12/10/2010 11:15	SLOQ			
Test		Result		Method		Analysis Start	Analysis End	Analyst*
pH		11.31@16.9°C		SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	s	1860 mg/L		SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Air	or Gel Cuttings	*	Lab ID	: 10121663-001M	Grab			
SAMPLED	BY: SG	Sar	mple Time	: 12/10/2010 11:15	SLOQ			
Test		Result		Method		Analysis Start	Analysis End	Analyst *
Total Organ	nic Halides	< 5.00 mg/kg		SW846/9023	5.00	12/15/10 15:45	12/15/10	
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.

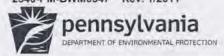
CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA

Analyte detected in the associated Method Blank

Due to matrix effects, not all quality control parameters met acceptance criteria

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

CHAIN OF CUSTODY						E	Benchm	E1	OF1
Talisman / UEG					2	566 P	Ea ennsylvar		
geowetlands@aol.com					-	,,,,,	Phon Fax: W/O#: 10121663	DED: YES	
CONTACT Stave Cridley			ATE S		ES .	Di Gi	V DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP NYDOH NYDEC PADEP	IF YES, PLEASE ATTAC	GE NEEDED?
Steve Gridley	1		PORT		/	W	W WASTE WATER OTHER	YES IF YES, PLEASE ATTAC	Calle or transcript
PH# \ 607-731-0145 FAX#	L	ABOR	ATOR	,	/	1	/ / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	/ / S. PLEASE AT TAC	H KEQUIKEMENTS
BILL TO: Talisman			OLER		/	180	S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID //	LECE!	
PO# AP 77906 PI RIPHON		-	-	TANK OF THE PROPERTY OF THE PR	SAL TAPE GRA	WILLIA COM	SO 3 SCOIUM 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 application on LAB USE	e fill out all able areas
SAMPLER SIGNATURE / AFFILIATION L. P. CONTAINER SAMPLING POINT	/	_	_	SAM	_	-	(in the control of th	LAB USE	only
1 Air or Gel Cuttings	12/8	1817	50	C	50	10	Ignitability, Reactive Sulfide & Cyanide		
2				С	1		PCBs, Total Solids		
3 A Phenol, Ign.				G			Total Volatile Solids		
4				С			Ammonia-Nitrogen		
5 & Reactivity Wase	filds	11	1	С	11,		Water Leaching Procedure: COD,		
6 D- SVS	V	Y	V	С	V	V	Total Solids, Oil & Grease,		
7 E T. Sample									
8 F- TCLP 8270, Pout		J	AST.	4 C	00,1	9113	17 - 1 - 10 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
9 G. TCLP Herbs Sr		K	1	0	1116	1900	50 HOUR TURNAROUND		
10 H TOLP PH		1		T	Soh	au	DAY TURNAROUND		
11 I TCLP VOIS	- F/M	M	4	2	H	30	to Tox		
ABUSEONE N. T. C.	\$ 100 miles							76-1-10/16	ગ્રેપનીલા દેશાં,
RELINQUISHED BY	- <u>1</u>		ATE:	91	10	IME:	530 RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:			ATE:	1	_	IME:	RECEIVED BY:	DATE:	TIME:
RELINQUISHED BY:		C	ATE:	1	T	IME:	RECEIVED BY DO SO	12,9,10	TIN5-9/5 pohics 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

				ired information must be		USE	ONLY
each	attache		ference the item numb	pace is necessary, identify ber and identify the date e noted below.		ved & G	eneral Notes
Gene	ral Refer	ence 287.54					
Date I	Prepare	d/Revised Febru	ary 11, 2011				
		SECTION A. C	LIENT (GENERATO	R OF THE WASTE) INF	ORMATION		
	any Nar						
		ergy USA Inc.			FD		10.0
		y, Name of Parent Compar ergy Inc.	ıy		N/A		rator ID#
		ling Address Line 1	C	Company Mailing Address			
	ennwood				2007		
	Marine Street, Action	dress Last Line - City	State	Zip+4	Phone		Ext
	endale	45.54 (1.5.54 (1.5.54)	PA	15086	(724) 814-53		
Brown		itact Last Name	First Name Dina	MI	Suf	lix	
20000000	ipality			County			
	endale			Allegheny			
STREET, STREET	ct Phon		Contact Email Address				
	814-53		lybrown@talismanusa.				-
If 'No'	, descri		ation and storage. Drill	above)? cuttings are generated durin Road, Ward Township, Tiog:			
contai	ners on a		County Tioga		State	PA	
			SECTION B. WAS				
Res	idual	Residua			Unit of		Time
Waste	e Code	Code Des	scription	Amount	Measure		Frame
810		Drill cuttings (oil and ga	s)	85	cu yd ☐ gal		One Time
			1. GENERAL F	PROPERTIES	2 1011		9110 11110
a.	pH Ra	nge 7.86	to	(based on analyses or know	wledge)		
b.	Physic	cal State [Liquid Waste (EPA Method 90) Gas (ambient tempera	095)			
C.	Physic	cal Appearance (Color Greyish Black	Odor	Earthy/Slight	Petro	leum
				d Phases of Separation	One		
		ı	Describe each phase of	separation. Soil and Rock	Fragments		
			2. CHEMICAL ANALY	ISIS ATTACHMENTS			
a.				e waste, as described in the	ne 🗵	Yes	□ No
h		ctions, is attached. iled description of the wa	eto eampling mothod is	attached		Yes	П No
b.				oyed by the laboratory(ies)	-		□ No
· ·	attach		ma or procedures emple	you by the laboratory(les)		103	□ 140
d.	The re	sults of the hazardous wa	ste determination is atta	ached.		Yes	☐ No
e.		icable, a detailed explanal actual chemical analysis		enerator knowledge in	Yes	No	⊠ N/A

		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 lions, is attached.
C.		on submitted are confidential, the substantiation for Yes No N/A described in the instructions, is attached.
0	SEC	TION C. MANAGEMENT OF RESIDUAL WASTE
		PROCESSING OR DISPOSAL FACILITY(IES)
The a	area below (ad.) will accomm	nodate the identification of two facilities. Attach additional sheets if necessary.
a.	Solid waste permit numbe 100361	r(s) for processing or disposal facility being utilized.
b.	Facility Name	McKean County Landfill
	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 Title	Mike Manderfeld
	Phone	(814) 778-9931 Email Address manderfeld@gmail.com
d.	Volume of waste shipped t 85	to processing or disposal facility in the previous year. □ cu yd □ gal □ lb ☑ ton (check one)
a.	Solid waste permit numbe	r(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 processing or disposal facility in the previous year.
200		cu yd gal lb ton (check one)
		2. BENEFICIAL USE
a.	Has the waste been appro	
		ermit number or approval number.
b.	Volume of waste beneficia 0	cuyd gal lb ton (check one)
-		

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 Submitted:

Title

Date

Environmental Specialist

LAB ID # 11216 LAB ID # 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10042642

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10042642

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

PAGE: 1 of 1

Horseheads, NY 14845

PO#:

PHONE: (607) 562-4000 FAX: (607) 562-4001

TEST REPORT

PWS ID#

DCNR58702 Pad 1

RECEIVED FOR LAB BY: WCB

DATE: 04/19/2010 13:54

Page 1 of 1

SAMPLE: Clean Soil-Central Pit Area	La	b ID: 10042642-001A	Grab			
SAMPLED BY: SG	Sample T	Time: 04/15/2010 14:00	SLOQ			
Test	Result	Method	-	Analysis Start	Analysis End	Analyst*
Sodium	163 mg/Kg-dry	EPA 6010B	109	04/22/10 8:30	04/23/10	GSR-CV
Bromine	<4.6 mg/kg	HACH 8167	0.05	04/22/10 14:38	04/22/10	SMH-CV
pH	7.86 @ 20.9 °C	EPA 9045D		04/20/10 13:25	04/20/10	SMH-CV
Styrene	< 0.093 mg/Kg-dry	EPA 8260B	0.093	04/25/10 11:46	04/25/10	MTB-CV
Chloride	325 mg/Kg-dry	EPA 300.0	58.2	04/20/10 14:03	04/21/10	HDP-CV
Percent Moisture	14.1 %	SM2540G		04/20/10 9:00	04/21/10	DMB-CV
Percent Moisture		SM2540G	50.2			

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:

4/26/2010

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.

Horseheads, NY 14845

ADDRESS: 337 Daniel Zenker Dr

WO#:

10051471

Work Order: 10051471

PAGE:

1 of 4

PO#:

TEST REPORT

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

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DATE: 05/11/2010 17:05

Page 1 of 4

SAMPLE: Inv. Cuttings-Cellar 1		Lab ID	: 10051471-001A	Compo	site		
SAMPLED BY: LS	Sar	mple Time	: 05/05/2010 19:30	*1000			
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst '
Moisture	49.2 %	Y	Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 15:45	05/12/10	IC-SA
pH	12.06@24.2°C		EPA 9045C	.,	05/14/10 16:42	05/14/10	KAL-SA
SAMPLE: Inv. Cuttings-Cellar 1		Lab ID	: 10051471-001B	Compo	site		
SAMPLED BY: LS	Sar	nple Time	: 05/05/2010 19:30	SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst '
Total Petroleum Hydrocarbons	< 433 mg/Kg		EPA 9071	433	05/18/10 11:30	05/18/10	
Sample Note: Analysis performed	by Microbac -Erie						
SAMPLE: TCLP Leachate of Inv. Cu	ittings-Cellar 1	Lab ID	: 10051471-001D	Compo	site		
SAMPLED BY: LS	Sar	nple Time	: 05/05/2010 19:30				
Yest	Denville		Mathad	SLOQ	Amelicale Ctart	Analysis Fast	Tolkin in to control
Test Mercury - TCLP extracted	Result < 0.0008 mg/L		Method EPA 7470A	0.0008	Analysis Start 05/14/10 9:30	Analysis End 05/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Barlum - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Zinc - TCLP extracted	0.571 mg/L		EPA 6010B	0.200	05/17/10 11:00	05/18/10	GSR-CV

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Parameter not NELAC certified

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

ani M. Davis 5/20/2010 DATE: MANAGER

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10051471

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#: 10051471

PAGE: 2 of 4

PO#:

PWS ID#

PHONE: (607) 731-0145 FAX:

(607) 562-4001

DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

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TEST REPORT

Page 2 of 4

SAMPLE: Inv. Cuttings-Cellar 2		Lab II	D: 10051471-002A	Compo	site		
SAMPLED BY: LS	Sar	mple Time	e: 05/05/2010 19:30				
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst 1
Moisture	49.0 %	Y	Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 15:50	05/12/10	IC-SA
	11.82@23.6 °C		EPA 9045C	0.1	05/14/10 16:42	05/14/10	KAL-SA
рН	11.02@23.0 C		EFA 9045C		03/14/10 10.42		IVAL-SM
SAMPLE: Inv. Cuttings-Cellar 2		Lab II	D: 10051471-002B	Compo	site	1.	
SAMPLED BY: LS	Sar	mple Time	: 05/05/2010 19:30				
	Descrit		Mathed	SLOQ	Analysis Start	Assluais End	Analyst 1
<u>Test</u>	Result		Method	005		Analysis End	Analyst
Total Petroleum Hydrocarbons	< 365 mg/Kg		EPA 9071	365	05/17/10 10:30	05/17/10	
Sample Note: Analysis performed	by Microbac - Erie						
SAMPLE: TCLP Leachate of Inv. Cu	ittings-Cellar 2	Lab II	D: 10051471-002D	Compo	site		
SAMPLED BY: LS	Sar	mple Time	9: 05/05/2010 19:30				
4	Beach		Made	SLOO	Accepted Biological		
Test	Result		Method EDA 7470A	0.0000	Analysis Start	Analysis End	Analyst '
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	05/14/10 9:30	05/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Copper - TCLP extracted	0.159 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
	0.108 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Nickel - TCLP extracted	or roo migra				2202032 33 22	anunua.	
Nickel - TCLP extracted Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
			EPA 6010B EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\

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ani M. Davis DATE: 5/20/2010 MANAGER

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10051471

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SEND DATA TO:

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Horseheads, NY 14845

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3 of 4

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(607) 731-0145

TEST REPORT

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(607) 562-4001

DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

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SAMPLE: Inv. Cuttings-Cellar 3		Lab II	D: 10051471-003A	Compo	site		
SAMPLED BY: LS	Sa	mple Time	a: 05/05/2010 19:30				
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst '
Moisture	45.9 %	Y	Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 15:55	05/12/10	IC-SA
рН	12.07@24.1°C		EPA 9045C		05/14/10 16:42	05/14/10	KAL-SA
SAMPLE: Inv. Cuttings-Cellar 3		Lab II	D: 10051471-003B	Compo	site		
SAMPLED BY: LS	Sai	mple Time	e: 05/05/2010 19:30				
Treet	Result		Mathed	SLOQ	Analysis Start	Analysis End	Annhait
Test	< 279 mg/Kg		Method EPA 9071	279	05/17/10 10:30	Analysis End	Analyst '
Total Petroleum Hydrocarbons Sample Note: Analysis performed	A STATE OF THE PARTY OF THE PAR		EFA 90/1	219	03/1//10 10:30	05/17/10	
SAMPLE: TCLP Leachate of Inv. Cu	ttings-Cellar 3	Lab II	D: 10051471-003D	Compo	site		
SAMPLED BY: LS	The state of the s	mple Time	: 05/05/2010 19:30				
	D		11.0.3	SLOQ	4-4	4-10-12-1	4000
Test	Result		Method	0.0000	Analysis Start	Analysis End	Analyst
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	05/14/10 9:30	05/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-CV
Cadmlum - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Copper - TCLP extracted	0.845 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Lead - TCLP extracted	0.582 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
Nickel - TCLP extracted	0.102 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Zinc - TCLP extracted	1.42 mg/L		EPA 6010B	0.200	05/17/10 11:00	05/18/10	GSR-CV

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MANAGER DATE: 5/20/2010

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2566 Pennsylvania Ave. Sayre, PA 18840

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Horseheads, NY 14845

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10051471

PAGE:

4 of 4

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TEST REPORT

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(607) 562-4001

DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

RECEIVED FOR LAB BY: DLM2

DATE: 05/11/2010 17:05

Page 4 of 4

SAMPLE: Inv. Cuttings-Cellar 4		Lab ID: 10051471-004A	Compo	site		
SAMPLED BY: LS	Sar	nple Time: 05/05/2010 19:30				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Moisture	49.4 %	Y Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	05/12/10 16:00	05/12/10	IC-SA
pH	11.89@23.7°C	EPA 9045C		05/14/10 16:42	05/14/10	KAL-SA
SAMPLE: Inv. Cuttings-Cellar 4		Lab ID: 10051471-004B	Compo	site		
SAMPLED BY: LS	Sar	nple Time: 05/05/2010 19:30				
Tool	Result	Method	SLOQ	Analysis Start	Analysis End	Ameliani i
Test Total Petroleum Hydrocarbons	567 mg/Kg	EPA 9071		05/17/10 10:30	05/17/10	Analyst *
Sample Note: Analysis performed		ELV 2011		03/1/10 10.30	00/1//10	
SAMPLE: TCLP Leachate of Inv. Co	ittings-Cellar 4	Lab ID: 10051471-004D	Compo	site		
SAMPLED BY: LS	Sar	nple Time: 05/05/2010 19:30				
Tool	Desuit	Mathed	SLOQ	Ameliate Otest	Analysis Fold	And best
Test Mercury TCLP extracted	Result	Method EDA 7470A		Analysis Start	Analysis End	200
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	05/14/10 9:30	05/18/10	KW-CV
Mercury - TCLP extracted Arsenic - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L	EPA 7470A EPA 6010B	0.0008	05/14/10 9:30 05/17/10 11:00	05/18/10 05/18/10	KW-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barlum - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L	EPA 7470A EPA 6010B EPA 6010B	0.0008 0.500 10.00	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barlum - TCLP extracted Cadmium - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100 0.500	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L 0.190 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100 0.500 0.100	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L 0.190 mg/L < 0.500 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100 0.500 0.100 0.500	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted Nickel - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L 0.190 mg/L < 0.500 mg/L 0.106 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100 0.500 0.100 0.500 0.100	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV
Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted	< 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L 0.190 mg/L < 0.500 mg/L	EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	0.0008 0.500 10.00 0.100 0.500 0.100 0.500	05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	Analyst* KW-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV

REMARKS:

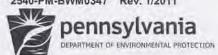
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless otherwise noted on the Analytical Report.

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

Parameter not NELAC certified

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

any M. Davis DATE: 5/20/2010 MANAGER



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	This form must be fully and accurately completed. All required info typed or legibly printed in the spaces provided. If additional space is neach attached sheet as Form 26R, reference the item number and prepared. The date on attached sheets needs to match the date noted be General Reference 287.54				y Date Rec	EP USE ONLY seived & General Notes
Genera	al Refer	ence 287.54				
Date P	repared	d/Revised Februar	y 11, 2011			
		SECTION A. CL	ENT (GENERATOR	R OF THE WASTE) IN	ORMATIO	N
	any Nar		***************************************			
		ergy USA Inc.			E	PA Generator ID#
If a Subsidiary, Name of Parent Company Talisman Energy Inc.						A Generator ID#
		ling Address Line 1	C	ompany Mailing Address		
	200 00000000000000000000000000000000000	Place				
	NOTE THE PROPERTY OF THE PROPE		State	Zip+4	Phone	Ext
Warre		ntact Last Name	PA First Name	15086 MI	(724) 814-	uffix
Brown		itadi Last Maine	Dina		0.	attik
Munici				County		
Warre				Allegheny		
	ct Phon 814-53		ntact Email Address prown@talismanusa.c	nom		
		enerated at the Company Ma	ailing Address (noted	above)?		☐ Yes 🖂 No
		be location of waste generat			ing natural gas	
		(02-002) well pad site located	at 374 Fellows Creek F	Road, Ward Township, Tio	ga County, PA.	Waste is stored in
Munici	ners on a	site. Ward	County Tioga		State	PA
manne	panty			E DESCRIPTION	3.3.0	10
Resi	dual	Residual V		L DEGOTTI HOT	Unit of	Time
Waste		Code Descr	ription	Amount	Measure	Frame
810		Drill cuttings (oil and gas)		2.900	ouyd □g	
			1. GENERAL F			one time
a.	pH Ra	nge 8.04	to 12.07	(based on analyses or kn	owledge)	
b.	Physic	cal State	Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	95)		
C.	Physic	cal Appearance Co			Earthy/Slig	ht Petroleum
				d Phases of Separation	One	
		Des	scribe each phase of s	separation. Soil and Roc	k Fragments	
			2. CHEMICAL ANALY	SIS ATTACHMENTS		
a.		sults of a detailed chemical ctions, is attached.			the	∑ Yes ☐ No
b.		iled description of the waste	sampling method is	attached.		X Yes No
c.	The quattach	uality assurance/quality conted.	trol procedures emplo	yed by the laboratory(ie:	s) is	Yes No
d.		sults of the hazardous wast	e determination is atta	ached.		
e.		icable, a detailed explanatio actual chemical analysis is		enerator knowledge in	Yes	□ No ⊠ N/A

a.		3. PROCESS DESCRIPTION	& SCHEWATIC ATTAC	UNEWIO					
	A detailed description of the the waste, as specified in t			sses producing		Yes		No	
b.	A schematic of the manufa as specified in the instruct		entrol processes prod	ucing the waste,		Yes		No	
c.	If portions of the information a confidentiality claim, as of			for Yes		No		N/A	
	SECT	TION C. MANAGEM	ENT OF RESIDU	AL WASTE					
			DISPOSAL FACILITY(IE						
The a	area below (ad.) will accomm	odate the identification of	two facilities. Attach	additional sheets	if nec	essary	2		
a.	Solid waste permit number 8-0728-00004	(s) for processing or dispo	osal facility being utili	zed.					
b.	Facility Name	Chemung County Lai	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	Environmnetal Manager							
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.	com			
d.	Volume of waste shipped t 1,418	o processing or disposal f	acility in the previous)				
a.	Solid waste permit number 9-0232-00003	(s) for processing or dispo	osal facility being utili	zed.					
h	Facility Name	1.1 1.5 1.1 1.2 1.001				_			
b.	1 donity Hunte	Hyland Landfill							
	Address Line 1	Hyland Landfill 6653 Herdman Road							
	Address Line 1	6653 Herdman Road Angelica	NY	14709					
	Address Line 1 Address Line 1	6653 Herdman Road		14709 Allegany					
с.	Address Line 1 Address Line 1 Address City State ZIP	6653 Herdman Road Angelica	NY	1,000,000					
	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	Angelica Angelica	NY	1,000,000	isella.	com			
c.	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	Angelica Angelica Larry Shilling (585) 466-7271	NY County Email Address	Allegany larry.shilling@ca	isella.	com			
c.	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	Angelica Angelica Larry Shilling (585) 466-7271 o processing or disposal for cu yd gal	NY County Email Address acility in the previous lb	Allegany larry.shilling@ca		com			
c.	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t 1,220	Angelica Angelica Larry Shilling (585) 466-7271 co processing or disposal for cu yd gal	NY County Email Address	Allegany larry.shilling@ca				N	
c.	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped to 1,220 Has the waste been approximately	Angelica Angelica Larry Shilling (585) 466-7271 co processing or disposal for cu yd gal 2. Beneved for beneficial use?	NY County Email Address facility in the previous b ton	Allegany larry.shilling@ca		com		No	
	Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t 1,220	Angelica Angelica Larry Shilling (585) 466-7271 o processing or disposal for cu yd gal 2. Beneved for beneficial use?	NY County Email Address facility in the previous b ton EFICIAL USE	Allegany larry.shilling@ca				No	

		3. PROCESS DESCRIPTION	& SCHEMATIC ATTA	CHMENTS		
a.	A detailed description of the the waste, as specified in the			esses producing		☐ No
b.	A schematic of the manufa as specified in the instruct		ontrol processes pro	ducing the waste,		□ No
C.	If portions of the information a confidentiality claim, as o			on for Yes	☐ No	⊠ N/A
	SECT	TON C. MANAGEM				
The :	area below (ad.) will accomm		DISPOSAL FACILITY(I		if necessary	,
a.	Solid waste permit number 100361			STATE OF THE PARTY	ii neeessarj	
b.	Facility Name					
	Address Line 1	McKean County Land 19 Ness Lane				
	Address Line 1 Address City State ZIP	Kane	PA	16735	_	-
	Municipality	Sergeant Twp	County	McKean		
C.	Facility Contact Name Title	Mike Manderfeld				
	Phone	manderfeld@gn	nail.com			
d.	Volume of waste shipped to 181	processing or disposal f	acility in the previou)	
a.	Solid waste permit number 8-4630-00010	(s) for processing or disp	osal facility being uti	lized.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	Road			
	Address Line 1 Address City State ZIP	Deleted Deat	NIV	44070		
	Municipality	Painted Post Erwin Twp	NY County	14870 Steuben		
c.	Facility Contact Name	Joseph Boyles		Ottoboli		
	Title Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@cas	ella.com	
d.	Volume of waste shipped t 87		facility in the previou)	
		2. BEN	EFICIAL USE			1
a.	Has the waste been approved if "Yes", list the general per		umber		Yes	⊠ No
b.	Volume of waste beneficial			n (check one	:)	

Dina Brown

Signature In Slon

			SECTION	D. CERTIFICAT	TION
Repo obta know	ort and all attached docu	iments verify t the s	and that based that the submitte ubmission of fals	upon my inquiry of ed information is tru se information herein	ar with the information submitted in this Annual those individuals immediately responsible for e, accurate and complete to the best of my is made subject to the penalties of 18 Pa. C.S. imprisonment.
Che	ck the following, if applica	ble:			
	I certify the information and has not char		red in Section B-	-1, General Properties	s was supplied to the Department for the year
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
	I certify the information and has not char		red in Section B	-2, Chemical Analysis	s was supplied to the Department for the year
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
	I certify the information for the year and I		ATTACABLE STATE CONTRACTOR STATE OF THE STAT	Process Description	and Schematic, was supplied to the Department
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
Nam	e of Responsible Official			Title	Environmental Specialist

Date

2/25/62

LAB ID # 11216 LAB ID # 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040640

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

SEND DATA TO:

NAME:

Steve Gridley

PHONE:

COMPANY: Talisman Energy USA, Inc.

Horseheads, NY 14845

(607) 731-0145

ADDRESS: 337 Daniel Zenker Dr

WO#: 10040640

PAGE: 1 of 3

PO#:

PWS ID#

FAX: (607) 562-4001 DCNR 5870200203

TEST REPORT

RECEIVED FOR LAB BY: WCB	DAT	E: 04/06/2010 8:45			Page 1 of		
SAMPLE: In Cuttings - Bin SAMPLED BY: DB	Sar	Lab ID: 10040640-001A mple Time: 04/05/2010 18:00	Grab				
Test pH Total Petroleum Hydrocarbons	Result 8.11 @ 22.4°C 12000 mg/Kg	Method EPA 9045D EPA 1664A	Reg	Analysis Start 04/07/10 11:55 04/07/10 12:40	Analysis End 04/07/10 04/07/10	Analyst * NC-CV DTG-CV	
SAMPLE: In Cuttings - Bin SAMPLED BY: DB	Sar	Lab ID: 10040640-001B Sample Time: 04/05/2010 18:00					
Test % Solids	Result 50.70 % Wght.	Method SM2540B	Reg Limit	Analysis Start 04/06/10 14:30	Analysis End 04/07/10	Analyst * NFM-SA	
SAMPLE: TCLP Leachate of In Cutt	ings - Bin	Lab ID: 10040640-001D	Grab				
SAMPLED BY: Lab	Sar	mple Time: 04/07/2010 6:45	-				
Test	Result	Method	Rea 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	0.165 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	44.2 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

Spike Recovery outside accepted recovery limits

Carrie M. Davis MANAGER

DATE:

4/8/2010

LAB ID # 11216 LAB ID # 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040640

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#: 10040640

PAGE: 2 of 3

PO#:

TEST REPORT

PWS ID#

PHONE: FAX:

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

DCNR 5870200203

RECEIVED FOR LAB BY: WCB

DATE: 04/06/2010 8:45

Page 2 of 3

MPLE: TCLP Leachate of In Cu	ttings - Bin	Lab I	D: 10040640-001E	Grab			
SAMPLED BY: Lab	San	nple Tim	e: 04/07/2010 6:45				
Test	Result		Method	Reg Limit	Analysis Start	Analysis End	Analyst '
Pyridine	< 0.05 mg/L		EPA 8270C	5	04/07/10 16:52	04/07/10	RHH-SA
1,4-Dichlorobenzene	< 0.05 mg/L		EPA 8270C	7.5	04/07/10 16:52	04/07/10	RHH-SA
o-Cresol	< 0.05 mg/L		EPA 8270C	200	04/07/10 16:52	04/07/10	RHH-SA
p-Cresol/m-Cresol	< 0.05 mg/L		EPA 8270C	200	04/07/10 16:52	04/07/10	RHH-SA
Hexachloroethane	< 0.05 mg/L		EPA 8270C	3	04/07/10 16:52	04/07/10	RHH-SA
Nitrobenzene	< 0.05 mg/L	S	EPA 8270C	2	04/07/10 16:52	04/07/10	RHH-SA
Hexachlorobutadiene	< 0.05 mg/L		EPA 8270C	0.5	04/07/10 16:52	04/07/10	RHH-SA
2,4,6-Trichlorophenol	< 0.05 mg/L		EPA 8270C	2	04/07/10 16:52	04/07/10	RHH-SA
2,4,5-Trichlorophenol	< 0.05 mg/L		EPA 8270C	400	04/07/10 16:52	04/07/10	RHH-SA
Pentachlorophenol	< 0.25 mg/L		EPA 8270C	100	04/07/10 16:52	04/07/10	RHH-SA
2,4-Dinitrotoluene	< 0.05 mg/L		EPA 8270C	0.13	04/07/10 16:52	04/07/10	RHH-SA
Hexachlorobenzene	< 0.05 mg/L		EPA 8270C	0.13	04/07/10 16:52	04/07/10	RHH-SA
MPLE: ZHE Extract of In Cutting	ne - Bin	Lab II	D: 10040640-001F	Grab	. 40		-
SAMPLED BY: Lab		ample Time: 04/07/2010 6:45		6,66			
Test	Result	,pio (iii)	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:

MANAGER

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

Spike Recovery outside accepted recovery limits

Carrie M. Davis

DATE:

4/8/2010

LAB ID # 11216 LAB ID # 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040640

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

SEND DATA TO:

NAME:

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Horseheads, NY 14845

WO#:

10040640

PAGE:

3 of 3

PO#:

PHONE:

FAX:

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

TEST REPORT

PWS ID#

DOND FOTOSOSS

CEIVED FOR LAB BY: WCB	DATE:			Page 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:

MANAGER

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

Spike Recovery outside accepted recovery limits

Carrie M. Davis

DATE:

4/8/2010

CHAIN OF CUSTODY				rk Analytics, Inc.		PAGE	OF
REPORT TO: Talisman Energy		à	2566 Pennsylvania Phone:	stern Division a Avenue • Sayre, PA 188 : (570) 888-0169 :570) 888-0717	40	ARE SPECIAL DETECTION NEEDED: YES /	NO LIMITS
	Library and Control of Control	RATE SAMPLES			RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTAC	н
	AFTER C	OLLECTION	The mountains	WITCO N 01100F	NYDEC PADEP	IS A QC PACKA	GE NEEDED?
CONTACTS LEVE Gridley					LANDFILL	YES	NO
PH#607-731-0145		NSPORT TO			N. OTHER	IF YES, PLEASE ATTAC	H REQUIREMENTS
FAX#	LABO	RATORY	W/O#:	10040640	ROXIDE PWS ID#		
BILL TO: Talisman Energy		OOLER THICE			Location		
AFE 75561		////	SO ₃	SODIUM THIOSULFATE ZN Z	MMONIUM CHLORIDE Sample Point_		
PO#Patterson 56	/	19/1	8/3/ -		MERCURIC CHLORIDE	1.	1 41
PROJECT DESCRIPTION DCNK 587 02 002 03 SAMPLER SIGNATURE AFFILIATION	DATE SAMPLES	SAMPLE MOTHING SAMPLE MOTHING SAMPLE TOPE	SAMPLEFINITIALS PRESERVATIVE Chlorine Residual Total Free	An incomplete chain of processing of	of custody may delay the your sample(s).	NO DIESTANDA	Please fill out all applicable
Carmen any	1 AE	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The State of the S	ANALYSIS TO BE	PERFORMED	18 4 4 4	areas completely.
Container Sample Point No./Type	/	1 1				1 2 2	LAB USE ONLY
1 In Cuttings Bin	1/410 18.0	° 50 C	N	TCLP RCKH		.20	00 (D
2				TOU, N	SN.		
3				TPH		the dealer	001 A
4				PH		States State	LA
5 OOIC - Total Samp	le			% Solids			001 B
6				TCLP 8266	2-8270 * Due -	4/8/10	OOIE,F
7				(F	(E)		
8				624 hr Rusi	h)		
9						56	
10							
11				Due: 4/7	LO		
LAB USE CITY DELIVERED BY		Client		TEMPERATUR	E UPON RECEIPT 15	°C ARRIVAL	ON ICE Y/M
RELINQUISHED BY:	DAME SET SET	DATE:	TIME:	RECEIVED BY:	PROGRAM PROGRAM PROGRAM PROGRAM AND THE PROGRAM AND THE PROGRAM PROGRA	DATE:	TIME:
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PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10051471

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

TEST REPORT

SEND DATA TO:

PHONE:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

ADDRESS: 337 Daniel Zenker Dr

(607) 731-0145

Horseheads, NY 14845

PAGE: 1 of 4

10051471

PO#:

WO#:

PWS ID#

FAX: (607) 562-4001

DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

RECEIVED FOR LAB BY: DLM2 DATE: 05/11/2010 17:05

Page 1 of 4

SAMPLE: Inv. Cuttings-Cellar 1			: 10051471-001A	Сотро	site		
SAMPLED BY: LS	Sar	nple Time	: 05/05/2010 19:30	SLOQ			
Test	Result		Method	ocod	Analysis Start	Analysis End	Analyst '
Moisture	49.2 %	Y	Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA
Free Liquid	< 0.1 %		EPA 9095A		05/12/10 15:45	05/12/10	IC-SA KAL-SA
pH	12.06@24.2°C		EPA 9045C		05/14/10 16:42	05/14/10	
SAMPLE: Inv. Cuttings-Cellar 1		Lab ID	: 10051471-001B	Compo	site		
SAMPLED BY: LS	Sample Time: 05/05/2010 19:30						
	2000			SLOQ			
<u>Test</u>	Result		Method		Analysis Start	Analysis End	Analyst
Total Petroleum Hydrocarbons	< 433 mg/Kg		EPA 9071	433	05/18/10 11:30	05/18/10	
Sample Note: Analysis performed	by Microbac -Erie						
SAMPLE: TCLP Leachate of Inv. Cu	ttings-Cellar 1	Lab ID	: 10051471-001D	Compo	site		
SAMPLED BY: LS	Sar	nple Time	: 05/05/2010 19:30	41.44			
Test	Result		Method	SLOQ	Applicate Ctast		Amelian
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	Analysis Start 05/14/10 9:30	Analysis End 05/18/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
Barlum - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-C\
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	7.700.000.000.000.7	200	GSR-C\
Lead - TCLP extracted			EPA 6010B	2.2.2	05/17/10 11:00	05/18/10	GSR-C\
	< 0.500 mg/L		53.71.55.75	0.500	05/17/10 11:00	05/18/10	GSR-C\
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\
Zinc - TCLP extracted	0.571 mg/L		EPA 6010B	0.200	05/17/10 11:00	05/18/10	GSR-C

REMARKS:

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N Parameter not NELAC certified

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

MANAGER Carrie M. Davis DATE: 5/20/2010

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10051471

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Horseheads, NY 14845

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TEST REPORT

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SAMPLE: Inv. Cuttings-Cellar 2		Lab II	D: 10051471-002A	Compo	site			
SAMPLED BY: LS	Sar	mple Time	e: 05/05/2010 19:30					
Tool	Denville		Malhad	SLOQ	Analysis Clast	Annhair Fad	Analysis	
Test Moisture	Result 49.0 %	Y	Method Moisture Calc.	0.01	Analysis Start 05/14/10 8:00	Analysis End 05/18/10	100 Street Contraction	
	7777		1119191919	1	771		KAL-SA	
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 15:50	05/12/10	IC-SA	
рН	11.82@23.6 °C		EPA 9045C		05/14/10 16:42	05/14/10	KAL-SA	
SAMPLE: Inv. Cuttings-Cellar 2		Lab II	D: 10051471-002B	Compo	site	-		
SAMPLED BY: LS	Sar	nple Time	9: 05/05/2010 19:30					
+	200		Maked	SLOQ	And the Print		Amelicak	
Test	Result		Method		Analysis Start	Analysis End	Analyst	
Total Petroleum Hydrocarbons	< 365 mg/Kg		EPA 9071	365	05/17/10 10:30	05/17/10		
Sample Note: Analysis performed	by Microbac - Ene							
SAMPLE: TCLP Leachate of Inv. Cu	ttings-Cellar 2	Lab II	D: 10051471-002D	Compo	site			
SAMPLED BY: LS	Sar	nple Time	9: 05/05/2010 19:30					
Test	Result		Method	SLOO	Analysis Start	Analysis End	Analyst '	
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	05/14/10 9:30	05/18/10	KW-CV	
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\	
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-C\	
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\	
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV	
Copper - TCLP extracted	0.159 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\	
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\	
Nickel - TCLP extracted	0.108 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-C\	
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-C\	
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CI	
Zinc - TCLP extracted				10000				
Zinc - TCLP extracted	0.458 mg/L		EPA 6010B	0.200	05/17/10 11:00	05/18/10	GSR-C	

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MANAGER Carry M. Davis DATE: 5/20/2010

PA ID #: 08-00380 NY ID# 11216

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10051471

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#:

10051471

PAGE:

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PO#:

TEST REPORT

PWS ID#

PHONE:

(607) 731-0145

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DCNR Pad 2-TCLP 8260/8270 Only if TPH Exceeds 120,

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Page 3 of 4

AMPLE: Inv. Cuttings-Cellar 3		Lau IU.	10051471-003A	Composite					
SAMPLED BY: LS	Sar	mple Time:	05/05/2010 19:30						
Tool	Desuit		Matheil	SLOQ	Analysis Plant	Applymin End	Analunt		
Test	Result	Y	Method Maintana Cala	0.04	Analysis Start	Analysis End	Analyst '		
Moisture	45.9 %		Moisture Calc.	0.01	05/14/10 8:00	05/18/10	KAL-SA		
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 15:55	05/12/10	IC-SA		
рН	12.07@24.1°C		EPA 9045C		05/14/10 16:42	05/14/10	KAL-SA		
SAMPLE: Inv. Cuttings-Cellar 3		Lab ID:	10051471-003B	Compo	osite				
SAMPLED BY: LS	Sar	Sample Time: 05/05/2010 19:30							
****				SLOQ			*******		
Test	Result		Method	(820	Analysis Start	Analysis End	Analyst *		
Total Petroleum Hydrocarbons	< 279 mg/Kg		EPA 9071	279	05/17/10 10:30	05/17/10			
Sample Note: Analysis performed	by Microbac -Erle								
Sample Note. Analysis performed	CENTRA DESCRIPTION								
	CONTRACTOR OF	Lab ID:	10051471-003D	Compo	site				
	ttings-Cellar 3		10051471-003D 05/05/2010 19:30	Compo	osite				
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS	ittings-Cellar 3 Sar			Compo	osite		A-2		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS	ttings-Cellar 3			~	Analysis Start	Analysis End	Analyst *		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS	ittings-Cellar 3 Sar		05/05/2010 19:30	~		Analysis End 05/18/10	Analyst *		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS	ittings-Cellar 3 Sar <u>Result</u>		05/05/2010 19:30 Method	SLOQ	Analysis Start		KW-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted	ttings-Cellar 3 Sar <u>Result</u> < 0.0008 mg/L		05/05/2010 19:30 <u>Method</u> EPA 7470A	SLOQ 0.0008	Analysis Start 05/14/10 9:30	05/18/10	- Tale 1 (1) (1)		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted	Sar Result < 0.0008 mg/L < 0.500 mg/L		05/05/2010 19:30 <u>Method</u> EPA 7470A EPA 6010B	SLOQ 0.0008 0.500	Analysis Start 05/14/10 9:30 05/17/10 11:00	05/18/10 05/18/10	KW-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barlum - TCLP extracted	Result < 0.0008 mg/L < 10.00 mg/L < 10.00 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barlum - TCLP extracted Cadmium - TCLP extracted	Result < 0.0008 mg/L < 10.00 mg/L < 10.00 mg/L < 0.100 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00 0.100	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.500 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00 0.100 0.500	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.100 mg/L < 0.500 mg/L < 0.845 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00 0.100 0.500 0.100	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cu SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barium - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted	Result < 0.0008 mg/L < 0.500 mg/L < 10.00 mg/L < 0.100 mg/L < 0.100 mg/L < 0.500 mg/L 0.845 mg/L 0.582 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00 0.100 0.500 0.100 0.500	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV		
SAMPLE: TCLP Leachate of Inv. Cur SAMPLED BY: LS Test Mercury - TCLP extracted Arsenic - TCLP extracted Barlum - TCLP extracted Cadmium - TCLP extracted Chromium - TCLP extracted Copper - TCLP extracted Lead - TCLP extracted Nickel - 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 0.845 mg/L 0.582 mg/L 0.102 mg/L		05/05/2010 19:30 Method EPA 7470A EPA 6010B EPA 6010B	SLOQ 0.0008 0.500 10.00 0.100 0.500 0.100 0.500 0.100	Analysis Start 05/14/10 9:30 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00 05/17/10 11:00	05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10 05/18/10	KW-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV GSR-CV		

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	A .			
MANAGER	Carri M. Davis	DATE:	5/20/2010	

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SAMPLE: Inv. Cuttings-Cellar 4		Lab ID	: 10051471-004A	Compo	site		
SAMPLED BY: LS	Sar	mple Time	: 05/05/2010 19:30				
Test	Deput		Maked	SLOQ	Analysis Otto	A DECISIO FOR	******
Moisture	Result 49.4 %	Y	Method Moisture Calc.	0.04	Analysis Start 05/14/10 8:00	Analysis End	Carried St. St. St.
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.01		05/18/10	KAL-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	05/12/10 16:00	05/12/10	IC-SA
рН	11.89@23.7°C		EPA 9045C		05/14/10 16:42	05/14/10	KAL-SA
SAMPLE: Inv. Cuttings-Cellar 4		Lab ID	: 10051471-004B	Compo	site		
SAMPLED BY: LS	Sar	mple Time	: 05/05/2010 19:30	SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst 1
Total Petroleum Hydrocarbons	567 mg/Kg		EPA 9071		05/17/10 10:30	05/17/10	
Sample Note: Analysis performed	by Microbac - Erie						
SAMPLE: TCLP Leachate of Inv. Cu	ttings-Cellar 4	Lab ID	: 10051471-004D	Compo	site		
SAMPLED BY: LS		nple Time	: 05/05/2010 19:30				
Test	D		Manual	SLOQ			2000000
Mercury - TCLP extracted	Result < 0.0008 mg/L		Method EPA 7470A	0.0000	Analysis Start	Analysis End	Analyst 1
Arsenic - TCLP extracted	3.4.4.0 CC 10.0 CC 10.			0.0008	05/14/10 9:30	05/18/10	KW-CV
Barium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
	< 10.00 mg/L		EPA 6010B	10.00	05/17/10 11:00	05/18/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Copper - TCLP extracted	0.190 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Nickel - TCLP extracted	0.106 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	05/17/10 11:00	05/18/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	05/17/10 11:00	05/18/10	GSR-CV
Silver - ICLP extracted	or roo ringin						

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The state of the s	Stock Title		

CHAIN OF CUSTODY						E								PAGE	10)F1	
Talisman / UEG					21	666 Pi											
geowetlands@aol.com					2.	100 11	WIC)#:	100	0514	171			ARE SPECIAL NEEDED:			
twollin@rallysolutions.ca	REF	RIGER	ATES	AMPLES	S						S ARE BEIN	IG USED	FOR:	IFYES, PLEAS	100		1
	AFTE	R CO	LLECT	TION			GWATER SL		3E	NYDOH	100		PADEP			E NEEDED?	,
CONTACT Steve Gridley						/ SW SURFAC	DWATER SC EWATER HZ	Z HAZAF	RDOUS		LAND		(7)02		YES 7		
PH# 607-731-0145	1	HANS	SPORT		1	DE DEIONE	WATER OF	THER DISTIL	LED WATE	R PERSON	VAL OTHE	R		IFYES, PLEAS	SE ATTACH	7 St min.	MENTS
FAX#		ABOR	ATOR	Y	/	[H/ /	HYDROCHL			SODIUM HY	The second second	1		1/5	7		
BILL TO: Talisman			OLER	/	/	8/ /	SULFURICA I NITRICACII	D	AC	ASCORBIC ACI	D		1	/ / 25/			
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PROJECT DESCRIPTION DCN 2		19	MP	1	i	WE WAR		nplete chal processing					10	1 mg/	applica	ble areas	
SAMPLER SIGNATURE / AFFILIATION	1/	SAM	18	1 / 2	4/	3/8/		processing	, bi you	asuhiafs).		/	8/		com	pletely	
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1 Inv Cuttings - Celler 1	10.1	1930	1	10	LS	TPH		(PER CONTA	HRVEN)						STATE OF STATE	OLA:	
2 Celher 2	11	1	1	1	1	pН						- 12th			11/20/2015年11/20/2015	A GO	RESERVE CO
3 Celler 3	1/					TCLP	8 RCRA M	letals +	Cu, N	Vi, Zn					A CONTRACTOR OF THE PARTY OF	031	SERVERY TORK
4 Cellery	1	t	V	t	V		iquids / %		-	312341					CONTRACTOR	es v	海川 田
5	1																
6 A-pH, Free Liquido, %	Noist	110				TCLP	8260 / 827	O ONL	YIFth	ne TPH							
7 R. TPH		2.12				exc	eeds 120,	000 mg	g/Kg			1.00					
8 C T. Sample												7.70					
9 D. TCLP Metals-Cu, N	11,2	h					но	UR TU	RNAF	ROUND		3					
10							5 DA	Y TURI	NARO	UND							
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		6								She is			10	°C AF	Part of the second	ながままでは、大きなもので	
DELIVERED BY.		20						LEMP	EKALUF	KE UPON	KECE		10	AI	CHUVAL	NICE.	Y
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The control of the co		1	/	- 1	- 1		RECEIVE	Wek	ple	TYYC	-Ca	th	1	DATE:	11 10	TIME:	5

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10053311

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10053311

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

PAGE: 1 of 1

Horseheads, NY 14845

PO#:

PHONE: (607) 562-4000 FAX: (607) 562-4001

PWS ID#

DCNR Pad #2 (2)

RECEIVED FOR LAB BY: DLM2

DATE: 05/24/2010 12:00

TEST REPORT

Page 1 of 1

SAMPLE: DCNR Pad #2 (2)

Composite

SAMPLED BY: Lee Simons/Bishops

Sample Time: 05/24/2010 0:00

Lab ID: 10053311-001B

SLOQ

Test Free Liquid pH

Result < 0.1 % 8.04@21.0°C

Method EPA 9095A **EPA 9045C**

0.1 05/24/10 15:30 05/24/10 15:30

Analysis Start

Analysis End Analyst * 05/24/10 IC-SA

05/25/10 NFM-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

MANAGER

Carrie M. Davis

DATE:

5/25/2010

PA ID #: 08-00380 NY ID# 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10070630

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

SEND DATA TO:

NAME: Steve Gridley WO#: 10070630

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

PAGE: 1 of 3

PO#:

Horseheads, NY 14845

(607) 562-4000

PWS ID#

FAX: (607) 562-4001

DCNR Pad 2

PHONE:

RECEIVED FOR LAB BY: WCB

DATE: 07/06/2010 13:04

TEST REPORT

Page 1 of 3

SAMPLE: DCNR Pad 2		Lab I	D: 10070630-001A	Compo	site		
SAMPLED BY: LS	Sam	ple Tim	e: 06/30/2010 8:00	2010/0			
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
Methanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
Ethanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
Isopropanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
t-Butanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
n-Propanol	< 4 mg/Kg	N-	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
Isobutanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
n-Butanol	< 4 mg/Kg	N	Alcohols by FID	4	07/09/10 15:23	07/09/10	TTT-CV
Sodium	214 mg/Kg-dry		EPA 6010B	93.4	07/08/10 7:00	07/09/10	JRA-CV
Bromine	20.7 mg/kg	N	HACH 8167	0.05	07/07/10 10:11	07/07/10	SMH-C
Styrene	< 0.410 mg/Kg-dry		EPA 8260B	0.410	07/07/10 15:29	07/08/10	DN-CV
Chloride	507 mg/Kg-dry		EPA 300.0	51.3	07/07/10 15:24	07/08/10	HDP-CV
Formaldehyde	< 1.0 mg/Kg-dry	N	NIOSH 3500	1.0	07/09/10 8:15	07/09/10	LTW-CV
Percent Moisture	2.5 %		SM2540G		07/07/10 9:00	07/08/10	NFM-SA
Sample Note: Limit of detec	tion increased due to matrix into	erferen	ce and spike recovery	data			
SAMPLE: DCNR Pad 2		Lab I	D: 10070630-001B	Compo	site		

SAMPLE: DCNR Pad 2		Lab II	D: 10070630-001B	Compe	osite		
SAMPLED BY: LS	San	nple Tim	e: 06/30/2010 8:00				
				SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst *
Moisture	2.45 %		Moisture Calc.	0.01	07/07/10 9:00	07/08/10	NFM-SA
Ammonia as N	5.1 mg/kg-dry	U	Lachat	1.0	07/08/10 10:42	07/08/10	RHN-SA
Free Liquid	< 0.1 %		EPA 9095A	0.1	07/07/10 8:15	07/07/10	IC-SA
pH	8.14@22.1°C		EPA 9045C		07/07/10 14:41	07/07/10	MED-SA
Phosphorus	< 21 mg/kg-dry		EPA 365.3	21	07/08/10 10:15	07/08/10	MED-SA

REMARKS:

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

Parameter is not NELAC certified N

Ammonia sample not distilled

MANAGER

Carrie M. Davis

DATE:

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10070630

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

SEND DATA TO:

NAME: Steve Gridley

COMPANY: Talisman Energy USA, Inc.

337 Daniel Zenker Dr Horseheads, NY 14845 WO#: 10070630

PAGE: 2 of 3

PO#:

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

DCNR Pad 2

ADDRESS:

RECEIVED FOR LAB BY: WCB

DATE: 07/06/2010 13:04

TEST REPORT

Page 2 of 3

SAMPLE: DCNR Pad 2 Lab ID: 10070630-001C Composite SAMPLED BY: LS Sample Time: 06/30/2010 8:00 SLOQ Analysis End Analyst* Test Result Method Analysis Start Ethylene glycol < 10.00 mg/Kg Glycols by 8015 07/08/10 0:00 07/08/10 10.00 Propylene glycol < 10.00 mg/Kg Glycols by 8015 10.00 07/08/10 0:00 07/08/10 Sample Note: Analysis performed by Summit Environmental Technologies, Inc. SAMPLE: DCNR Pad 2 Lab ID: 10070630-001D Composite SAMPLED BY: LS Sample Time: 06/30/2010 8:00 SLOQ Analysis End Analyst* Test Result Method Analysis Start

Phenolics, Total Recoverable 5.51 mg/Kg DRY **EPA 9065** 1.26 07/08/10 8:45 07/08/10 Sample Note: Analysis performed by QC Laboratories.

Sample Note: Holding times for preparation or analysis exceeded

Lab ID: 10070630-001E Composite SAMPLE: DCNR Pad 2

SAMPLED BY: LS Sample Time: 06/30/2010 8:00

SLOQ Analysis End Analyst * Test Result Method Analysis Start Total Petroleum Hydrocarbons 6630 mg/Kg EPA 9071 07/07/10 0:00 07/07/10 Sample Note: Analysis performed by Microbac-Erie

Lab ID: 10070630-001G Composite SAMPLE: TCLP Leachate of DCNR Pad 2 SAMPLED BY: LS Sample Time: 06/30/2010 8:00

SLOQ Analysis Start Analysis End Analyst * Result Mercury - TCLP extracted < 0.0008 mg/L **EPA 7470A** 0.0008 07/08/10 11:00 07/09/10 KW-CV Arsenic - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 07/08/10 11:45 07/09/10 JRA-CV Barium - TCLP extracted < 10.00 mg/L **EPA 6010B** 10.00 07/08/10 11:45 07/09/10 JRA-CV Cadmium - TCLP extracted 07/08/10 11:45 < 0.100 mg/L **EPA 6010B** 0.100 07/09/10 JRA-CV Chromium - TCLP extracted < 0.500 mg/L **EPA 6010B** 0.500 07/08/10 11:45 07/09/10 JRA-CV Copper - TCLP extracted 0.147 mg/L **EPA 6010B** 0.100 07/08/10 11:45 07/09/10 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

N Parameter is not NELAC certified

Ammonia sample not distilled

Carrie M. Davis MANAGER

DATE:

PA ID #: 08-00380 NY ID # 11216

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10070630

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#: 10070630

PAGE: 3 of 3

PO#:

PWS ID#

PHONE: (607) 562-4000 (607) 562-4001

FAX:

DCNR Pad 2

RECEIVED FOR LAB BY: WCB DATE: 07/06/2010 13:04

Page 3 of 3

		DOLLARS SERVICE SERVICE SERVICE				-
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/08/10 11:45	07/09/10	JRA-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/08/10 11:45	07/09/10	JRA-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	07/08/10 11:45	07/09/10	JRA-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/08/10 11:45	07/09/10	JRA-CV
Zinc - TCLP extracted	< 0.200 mg/L	EPA 6010B	0.200	07/08/10 11:45	07/09/10	JRA-CV

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; SA = Benchmark Analytics, Inc. Sayre, PA

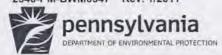
Parameter is not NELAC certified

Ammonia sample not distilled

MANAGER

Carrie M. Davis

DATE:



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF WASTE MANAGEMENT

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

General Re		reference the item numb ts needs to match the date	pace is necessary, identify per and identify the date e noted below.	Date Receive	USE C		otes
The state of the s	ference 287.54						
	7.000.000.000.000.000	oruary 11, 2011					
	SECTION A.	CLIENT (GENERATOR	R OF THE WASTE) INF	ORMATION			-
Company N	ame		,				
	nergy USA Inc.			F0.4		direct ID	u
Talisman E	ary, Name of Parent Comp	any		N/A	Gener	ator ID	#
	lailing Address Line 1	C	Company Mailing Address		-	-	
50 Pennwo							
	ddress Last Line - City	State	Zip+4	Phone		Ext	
Warrendale		PA First Name	15086	(724) 814-530			
Brown	ontact Last Name	First Name Dina	MI	Suffi	X		
Municipality	V	2 170,430	County				
Warrendale			Allegheny				
Contact Ph	5117	Contact Email Address					
(724) 814-5		dybrown@talismanusa.			Vac		Ma
	e generated at the Compar cribe location of waste gen			L an natural nas drill	Yes	eration	No
	87 (02-004) well pad site loc						o at
containers o	n site.						
Municipality	y Ward	County Tioga		State	PA		
		SECTION B. WAST	TE DESCRIPTION		-		
Residual Waste Code	30.17.21.31	ual Waste escription	Amount	Unit of Measure		Time	
				cu yd gal		Frain	6
810	Drill cuttings (oil and g	jas)	437	lb ⊠ ton		One 7	Time
		1. GENERAL F	The state of the s				
	Range 7.4		(based on analyses or kno	wledge)			
b. Phy	sical State	☐ Liquid Waste (EPA Me ☐ Solid (EPA Method 90 ☐ Gas (ambient tempera	95)				
c. Phy	sical Appearance	Color Greyish Black		Earthy/Slight	Petrol	eum	
		Number of Solid or Liqui		One			
		Describe each phase of s	separation. Soil and Rock	Fragments	_		
		2. CHEMICAL ANALY	CIC ATTACHMENTS				
	results of a detailed chem	ical characterization of th		he 🛛	Yes	П	No
a. The	results of a detailed chell		A CONTRACTOR OF THE PARTY OF				
inst	ructions, is attached.				10.2		
b. A de	ructions, is attached. etailed description of the v				Yes		No
b. A de c. The	ructions, is attached. etailed description of the w quality assurance/quality				Yes		No No
b. A de c. The atta	ructions, is attached. etailed description of the v	control procedures emplo	yed by the laboratory(ies		11000		

the area a. S & A A A N	A detailed description of the he waste, as specified in the A schematic of the manufacts specified in the instruction of the information of the in	turing and/or pollution coons, is attached ons, is attached. In submitted are confident escribed in the instruction of the instruction of the instruction of the instruction of the identification of	tial, the substantiations, is attached. ENT OF RESIDUTION DISPOSAL FACILITY(I two facilities. Attached the sal facility being utility.	on for Yes UAL WASTE ES) h additional sheets		Yes Yes No		No No N/A
The area a. S b. F A A N	s specified in the instruction of portions of the information confidentiality claim, as described by the second of the information of the informat	ons, is attached. In submitted are confident escribed in the instruction ION C. MANAGEM 1. PROCESSING OR odate the identification of (s) for processing or dispose Chemung County Lat 1690 Lake Street	tial, the substantiations, is attached. ENT OF RESIDUTION OF THE STATE OF THE STAT	DAL WASTE ES) h additional sheets		No		
The area a. S 8 b. F A A N	a confidentiality claim, as d SECT a below (ad.) will accommodified waste permit number (a0728-00001 Facility Name Address Line 1 Address City State ZIP	1. PROCESSING OR odate the identification of (s) for processing or disposed in the identification of (s) for processing or disposed in the identification of (s) for processing or disposed in the identification of (s) for processing or disposed in the identification of (s) for processing or disposed in the identification of (s) for processing or disposed in the instruction of the instruction of the identification of	ENT OF RESIDI DISPOSAL FACILITY(I two facilities. Attac osal facility being uti	JAL WASTE ES) h additional sheets	if nec			N/A
a. S 8 b. F A A	a below (ad.) will accommodiate the second	1. PROCESSING OR loadet the identification of (s) for processing or disponent of the county Lands (Section 1990). Lake Street	DISPOSAL FACILITY(I two facilities. Attac osal facility being uti	ES) h additional sheets	if ned	cessary	/.	
a. S 8 b. F A A	Solid waste permit number 3-0728-00001 Facility Name Address Line 1 Address Line 1 Address City State ZIP	Chemung County Later 1690 Lake Street	two facilities. Attac osal facility being uti	h additional sheets	if ned	cessary	/.	
a. S 8 b. F A A	Solid waste permit number 3-0728-00001 Facility Name Address Line 1 Address Line 1 Address City State ZIP	Chemung County Late 1690 Lake Street	osal facility being uti		if ned	cessary	/.	
b. F A A A N	3-0728-00001 Facility Name Address Line 1 Address Line 1 Address City State ZIP	Chemung County La 1690 Lake Street		lized.				
A A N	Address Line 1 Address Line 1 Address City State ZIP	1690 Lake Street	ndfill					
A A N	Address Line 1 Address City State ZIP	1690 Lake Street						
A	Address City State ZIP	Flmira						
IV		Flmira						
	Municipality	Lilling	NY	14903				
		Elmira	County	Chemung				
c. F	Facility Contact Name	Carla Canjar						
T	Title	Environmental Manag	ger					
P	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella	.com		
	Volume of waste shipped to 326	processing or disposal f	acility in the previou)			
	Solid waste permit number 9-0232-00003	(s) for processing or dispo	osal facility being uti	lized.				
b. F	Facility Name	Hyland Landfill						
A	Address Line 1	6653 Herdman Road						
A	Address Line 1							
	Address City State ZIP	Angelica	NY	14709				
IV	Municipality	Angelica	County	Allegany				
c. F	Facility Contact Name	Larry Shilling						
T	Title							
P	Phone	(585) 466-7271	Email Address	larry.shilling@ca	asella	.com		
	Volume of waste shipped to 31	processing or disposal f	acility in the previou)			
		2. BENI	EFICIAL USE					4
a. H	Has the waste been approv	ed for beneficial use?				Yes	X	No
11	f "Yes", list the general per	rmit number or approval n	umber.					
	Volume of waste beneficial			n (check one)			

_		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		ontrol processes pro	ducing the waste,		Yes	No
C.	If portions of the information a confidentiality claim, as of			n for Yes		No	N/A
	SECT	TION C. MANAGEN	ENT OF RESIDU	JAL WASTE			
		1. PROCESSING OR	DISPOSAL FACILITY(I	ES)			
The	area below (ad.) will accomm	odate the identification of	f two facilities. Attacl	h additional sheets	if nec	essary	
a.	Solid waste permit number 8-4630-00010	(s) for processing or disp	osal facility being uti	lized.			
b.	Facility Name	Hakes C&D Landfill					
	Address Line 1	4376 Manning Ridge	e Road				
	Address Line 1						
	Address City State ZIP	Painted Post	NY	14870			
	Municipality	Erwin Twp	County	Steuben			
C.	Facility Contact Name Title	Joseph Boyles					
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@cas	ella.co	om	
d.	Volume of waste shipped t 50	o processing or disposal cu yd gal	facility in the previou)		
a.	Solid waste permit number	r(s) for processing or disp	oosal facility being uti	lized.			
b.	Facility Name				_		
	A Link of the A Property of A						
	Address Line 1						
	Address Line 1						
	Address Line 1 Address City State ZIP		0				
	Address Line 1 Address City State ZIP Municipality		County				
c.	Address Line 1 Address City State ZIP Municipality Facility Contact Name		County				
c.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title						
C.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone		Email Address				
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	o processing or disposal	Email Address)		
	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t	☐ cu yd ☐ gal 2. BeN	Email Address)		
c. d.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	☐ cu yd ☐ gal 2. BeN	Email Address facility in the previou)	Yes	No
d.	Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped t	cu yd gal 2. Bet ved for beneficial use? ermit number or approval	Email Address facility in the previou to)	Yes	No

			SECTION D. CERTIFICATION
Repo obtai know	rt and all attached docu ning the information, I rledge. I understand that	ments verify the s	ave 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 applica	ble:	
	I certify the information and has not char		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 char		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 for the year and I		ed in Section B-3, Process Description and Schematic, was supplied to the Department t changed.
	Form Submitted:		Form 26R
			Other (specify)
	Date Submitted:		
Nam	e of Responsible Official		Title Environmental Specialist
Dina	Brown		1
Sign	ature	3	USW Date 2/25/11

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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

SEND DATA TO:

NAME: Dina Brown

WO#: 10124003

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

PAGE: 1 of 3

Horseheads, NY 14845

PO#:

D#: AF 76748

PHONE: (607) 562-4000 FAX: (607) 562-4001 **TEST REPORT**

PWS ID#

DCNR 006-04 Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50		Pag					
SAMPLE: Air Cuttings SAMPLED BY: DJD		ab ID: 10124003-001A Time: 12/28/2010 11:40	Grab SLOQ						
Test	Result	Method	SLUG	Analysis Start	Analysis End	Analyst *			
Total Petroleum Hydrocarbons Sample Note: Analysis performe	24000 mg/Kg ed by Microbac Laboratories, Ir	EPA 9071 nc-Erie Division.		12/29/10 15:10	12/29/10				
SAMPLE: Air Cuttings	1	ab ID: 10124003-001B	Grab						
SAMPLED BY: DJD	Sample	Time: 12/28/2010 11:40	SLOQ						
Test	Result	Method		Analysis Start	Analysis End	Analyst *			
Moisture	67.1 %	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 17:10	12/28/10	IC-SA			
рН	8.63@19.8°C	EPA 9045C		12/29/10 11:41	12/29/10	SG-SA			
SAMPLE: Air Cuttings	ı	ab ID: 10124003-001C	Grab						
SAMPLED BY: DJD	Sample	Time: 12/28/2010 11:40	SLOQ						
Test	Result	Method	5200	Analysis Start	Analysis End	Analyst *			
Sodium	400 mg/Kg	EPA 6010B	60.1	12/30/10 10:00	01/03/11	GSR-CV			
Chloride	237 mg/Kg	EPA 300.0	47.4	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	8.31 @ 19.1°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 C SAMPLED BY: DJD	attingo	ab ID: 10124003-001E Time: 12/29/2010 8:00	Grab						
Test	Result	Method	SLOQ	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			
DEMARKS.									

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

L Value above calibration range but within annually verified linear range

MANAGER

Carrie M. Davis

DATE:

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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#: 10124003

PAGE: 2 of 3

PO#: AF 76748

PWS ID#

Grab

Grab

SLOQ

PHONE: (607) 562-4000 FAX: (607) 562-4001

DCNR 006-04 Well Pad

RECEIVED FOR LAB BY: CMS

DATE: 12/28/2010 13:50

Page 2 of 3

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	5.72 mg/L	L	EPA 6010B	0.050	12/30/10 9:30	01/03/11	GSR-CV
Zinc - TCLP extracted	1.84 mg/L		EPA 6010B	0.200	12/30/10 9:30	01/03/11	GSR-CV

SAMPLE: TCLP Leachate of Air Cuttings

SAMPLED BY: DJD

Lab ID: 10124003-001F

Sample Time: 01/06/2011 8:00

2544442444	/S-5/12/2	AND STATE OF THE S	SLOQ			
Test	Result	Method		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

SAMPLE: TCLP Leachate of Air Cuttings

SAMPLED BY:

Sample Time: 01/06/2011 8:00

Lab ID: 10124003-001G

Analysis End Analyst* Analysis Start Test Result Method < 0.0250 mg/L 01/07/11 9:22 01/07/11 CTM-SA Benzene **EPA 8260B** 0.0250

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:

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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#: 10124003

PAGE: 3 of 3

PO#: AF 76748

PWS ID#

PHONE: (607) 562-4000 FAX: (607) 562-4001

DCNR 006-04 Well Pad

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50			Pa	ige 3 of 3
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
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: 10124003-001H	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00	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	by Analytical Services, Inc.					
SAMPLE: Air Cuttings	L	ab ID: 10124003-001I	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00	SLOQ			
Test	Result	Method	SLUG	Analysis Start	Analysis End	Analyst *
Ignitability	Negative AS IS	SW846 1030		01/07/11 14:00	01/07/11	

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

L Value above calibration range but within annually verified linear range

MANAGER

Carrie M. Davis

DATE:



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 attache	bly printed in the spaces ed 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, ide er and identify the	ntify Date R	DEP&USE&ONLY teceived & General Notes	S
General Refe	rence 287.54					
Date Prepare	d/Revised Fe	bruary 11, 2011				
	SECTION A.	CLIENT (GENERATOR	OF THE WASTE) I	NFORMATI	ON	
Company Na						
	ergy USA Inc.					
	ry, Name of Parent Com	pany			EPA Generator ID#	
Talisman En					N/A	
	iling Address Line 1	Co	ompany Mailing Addr	ess Line 2		
50 Pennwoo	dress Last Line – City	State	Zip+4	Phone	Ext	
Warrendale	uress Last Line – City	PA	15086	(724) 81 ₄		
	ntact Last Name	First Name	MI		Suffix	
Brown	madi East Maine	Dina	****		Outina .	
Municipality			County	*****	······································	
Warrendale			Allegheny			
Contact Pho	ne Ext	Contact Email Address				
(724) 814-53	321	dybrown@talismanusa.c				
		ny Mailing Address (noted a			Yes No	
		neration and storage. Drill o				<u>t </u>
		cated at 1247 Fallbrook Road	l, Ward Township, Tiog	a County, PA. V	Vaste is stored in	
containers on Municipality		County Tiona		State	ΡΔ	
Municipality	ward Ward	County Tioga	E DESCRIPTION	State I	PA	
Municipality	Ward	SECTION B. WAST	E DESCRIPTION			
Municipality Residual	Ward Resid	SECTION B. WAST	E DESCRIPTION Amount	Unit of	PA Time Frame	
Municipality Residual Waste Code	Ward Resid Code I	SECTION B. WAST ual Waste Description	Amount		Time	
Municipality Residual	Ward Resid	SECTION B. WAST ual Waste Description gas)	Amount 437	Unit of Measure	Time Frame	e
Residual Waste Code 810	Ward Resid Code I Drill cuttings (oil and	SECTION B. WAST dual Waste Description gas)	Amount 437 ROPERTIES	Unit of Measure Cuyd Db	Time Frame	e
Residual Waste Code 810	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST dual Waste Description gas) 1. GENERAL P	Amount 437 ROPERTIES (based on analyses or	Unit of Measure Cuyd Db	Time Frame	e
Residual Waste Code 810	Ward Resid Code I Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me	Amount 437 ROPERTIES (based on analyses or thod 9095)	Unit of Measure Cuyd Db	Time Frame	e
Residual Waste Code 810	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST Lual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909	Amount 437 ROPERTIES (based on analyses or thod 9095) 95)	Unit of Measure Cuyd Db	Time Frame	e
Residual Waste Code 810 a. pH Rabb. Physic	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 47 to 8.63	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) fure & pressure)	Unit of Measure Cu yd Ib	gal ton One Time	e
Residual Waste Code 810 a. pH Rabb. Physic	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909) Gas (ambient temperat Color Greyish Black	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od	Unit of Measure cu yd lb knowledge)	Time Frame	e
Residual Waste Code 810 a. pH Rabb. Physic	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio	Unit of Measure Cu yd Ib Knowledge) or Earthy/S n One	Time Frame gal ton One Time	е
Residual Waste Code 810 a. pH Rabb. Physic	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909) Gas (ambient temperat Color Greyish Black	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio	Unit of Measure Cu yd Ib Knowledge) or Earthy/S n One	Time Frame gal ton One Time	е
Residual Waste Code 810 a. pH Ra b. Physi	Ward Resid Code I Drill cuttings (oil and ange 7.4	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 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 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and R	Unit of Measure Cu yd Ib Knowledge) or Earthy/S n One	Time Frame gal ton One Time	е
Residual Waste Code 810 a. pH Ra b. Physi	Ward Resid Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 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 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and R	Unit of Measure	Time Frame gal ton One Time	277
Residual Waste Code 810 a. pH Ra b. Physi c. Physi a. The reinstru	Resid Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance esults of a detailed chemications, is attached.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS nical characterization of the	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and Resistance waste, as described	Unit of Measure	Time Frame gal ton	277
Residual Waste Code 810 a. pH Ra b. Physi c. Physi a. The ra instru b. A det	Resid Code I Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance esults of a detailed chemications, is attached. ailed description of the vertices and a second code in the	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 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 nical characterization of the waste sampling method is a	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and Resistance waste, as described attached.	Unit of Measure	Time Frame gal ton One Time light Petroleum S Yes No))
Residual Waste Code 810 a. pH Ra b. Physi c. Physi a. The ra instru b. A det c. The q	Resid Code I Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance esults of a detailed chemications, is attached. ailed description of the quality assurance/quality	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid Describe each phase of s 2. CHEMICAL ANALYS nical characterization of the	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and Resistance waste, as described attached.	Unit of Measure	Time Frame gal ton))
Residual Waste Code 810 a. pH Ra b. Physi c. Physi a. The ra instru b. A det c. The q attacl	Resid Code I Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance esults of a detailed chemications, is attached. ailed description of the viguality assurance/quality ned.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 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 nical characterization of the waste sampling method is a	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and Resistance waste, as described attached. yed by the laboratory	Unit of Measure	Time Frame gal ton One Time Done Time S Yes No Yes No Yes No)
Residual Waste Code 810 a. pH Ra b. Physi c. Physi a. The ra instru b. A det c. The q attacl d. The ra e. If app	Resid Code I Code I Drill cuttings (oil and ange 7.4 cal State cal Appearance esults of a detailed chemictions, is attached. ailed description of the vipuality assurance/quality ned. esults of the hazardous	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 47 to 8.63 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal 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 control procedures employ waste determination is attachation supporting use of ge	Amount 437 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and Resistance Amounts waste, as described attached. yed by the laboratory ched.	Unit of Measure cu yd lb knowledge) or Earthy/S n One ock Fragments in the	Time Frame gal ton)

140000000000000000000000000000000000000		PROCESS DESCRIPTION &	Charles San at Charles and a color of the co						
a.	A detailed description of the the waste, as specified in the		ution control proce	sses producing	⊠ Yes	☐ No			
b.	A schematic of the manufactual as specified in the instruction		rol processes prod	lucing 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.								
	SECTION	ON C. MANAGEMEN	NT OF RESIDU	AL WASTE					
1000		1. Processing or Dis	SPOSAL FACILITY(IE	:s) ::	Transfer of				
The a	ea below (ad.) will accommod	ate the identification of tw	o facilities. Attach	additional sheets	if necessary.	•			
a.	Solid waste permit number(s) 8-0728-00001	for processing or disposa	nl facility being utili	ized.					
b.	Facility Name	Chemung County Lands	fill						
	Address Line 1	1690 Lake Street		Contract Con					
	Address Line 1								
	Address City State ZIP	Elmira	NY NY	14903					
	Municipality	Elmira	County	Chemung					
c.	Facility Contact Name	Carla Canjar							
	Title	Environmental Manager	r						
	Phone	(585) 797-5941	Email Address	carla.canjar@cas	sella.com				
d.	Volume of waste shipped to p	rocessing or disposal faci	lity in the previous	year. (check one)					
d. a.	Volume of waste shipped to p	rocessing or disposal faci	lity in the previous	year. (check one)					
	Volume of waste shipped to p 326	rocessing or disposal faci	lity in the previous	year. (check one)					
a.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1	rocessing or disposal faci cu yd gal for processing or disposa	lity in the previous	year. (check one)					
a.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1 Address Line 1	rocessing or disposal facicuyd gal for processing or disposa Hyland Landfill 6653 Herdman Road	lity in the previous Ib	year. (check one) ized.					
a.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1 Address City State ZIP	rocessing or disposal faciou yd gal gal for processing or disposa Hyland Landfill 6653 Herdman Road Angelica	lity in the previous lib	(check one)					
a.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	rocessing or disposal facicuyd gal for processing or disposa Hyland Landfill 6653 Herdman Road	lity in the previous Ib	year. (check one) ized.					
a.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	rocessing or disposal faciou yd gal gal for processing or disposa Hyland Landfill 6653 Herdman Road Angelica	lity in the previous lib	(check one)					
a. b.	Volume of waste shipped to p 326 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	rocessing or disposal faciou yd gal gal for processing or disposal Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling	lity in the previous lb	(check one) ized. 14709 Allegany					
a. b.	Volume of waste shipped to p 326 Solid waste permit number(s) 9-0232-00003 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	rocessing or disposal faciou yd gal gal for processing or disposal Hyland Landfill 6653 Herdman Road Angelica Angelica	lity in the previous lib	(check one)					
a. b.	Volume of waste shipped to p 326 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 p	rocessing or disposal faciou yd gal gal for processing or disposal facion part of the processing or disposal facion processing p	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com				
a. b.	Volume of waste shipped to p 326 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	rocessing or disposal faciou yd gal gal for processing or disposal facion processing or disposal	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com				
a. b.	Volume of waste shipped to p 326 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 p 61	rocessing or disposal facicully gal gal for processing or disposal facicully for processing or disposal facicully facicully facicully facicully facicully facicully facicully gal gal facicully gal gal gal facicully fa	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com				
a. b.	Volume of waste shipped to p 326 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 p	rocessing or disposal facicully gal gal for processing or disposal facicully for processing or disposal facicully facicully facicully facicully facicully facicully facicully gal gal facicully gal gal gal facicully fa	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com	No			
a. b. c.	Volume of waste shipped to p 326 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 p 61	rocessing or disposal facicully gal gal for processing or disposal Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facicully gal gal for beneficial use?	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com	No			
a. b. c.	Volume of waste shipped to p 326 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 p 61	rocessing or disposal facicully gal gal for processing or disposal Hyland Landfill 6653 Herdman Road Angelica Angelica Larry Shilling (585) 466-7271 rocessing or disposal facicully gal gal for beneficial use?	Ility in the previous Ib	(check one) ized. 14709 Allegany larry.shilling@cas	sella.com	No			

	3.	PROCESS DESCRIPTIO	N & SCHEMATIC ATT	FACHMENTS						
a.	A detailed description of the the waste, as specified in the			ocesses producing	⊠ Yes	☐ No				
b.	A schematic of the manufactuas specified in the instruction		ontrol processes p	roducing the waste,	⊠ Yes	☐ No				
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.									
	SECTION	DN C. MANAGEM	IENT OF RESID	DUAL WASTE						
			DISPOSAL FACILITY							
The ar	ea below (ad.) will accommod	ate the identification o	f two facilities. Atta	ach additional sheets	if necessary	•				
a.	Solid waste permit number(s) 8-4630-00010	for processing or disp	osal facility being ι	ıtilized.						
b.	Facility Name	Hakes C&D Landfill								
	Address Line 1	4376 Manning Ridge	e 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@cas	ella.com 					
d.	Volume of waste shipped to p	cu yd gal		ton (check one)					
a.	Solid waste permit number(s)	for processing or disp	osal facility being u	ıtilized.						
b.	Facility Name									
	Address Line 1									
	Address Line 1									
	Address City State ZIP Municipality		County							
	· -		County							
C.	Facility Contact Name Title									
	Phone		Email Address							
				····						
d.	Volume of waste shipped to p	rocessing or disposal cu yd gal	_ · -	ous year. ton (check one)					
			EFICIAL USE:		7					
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No				
	If "Yes", list the general perm									
b.	Volume of waste beneficially 0	u sed in the previous y e cu yd gal		ton (check one)					

			SECTION D. CERTIFICATION
Report an obtaining knowledge	nd all attached docur the information, I v je. I understand that	nents 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.
Check the	e following, if applicab	le:	
i c	ertify the information and has not chang	-	red in Section B-1, General Properties was supplied to the Department for the year
Fo	orm Submitted:		Form 26R
			Other (specify)
Da	ate Submitted:		
☐ I c	ertify the information and has not chang	-	red in Section B-2, Chemical Analysis was supplied to the Department for the year
Fo	orm Submitted:		Form 26R
			Other (specify)
Da	ate Submitted:		
	ertify the information r the year and h	•	ed in Section B-3, Process Description and Schematic, was supplied to the Department changed.
Fo	orm Submitted:		Form 26R
			Other (specify)
Da	nte Submitted:		
Name of F	Responsible Official		Title Environmental Specialist
Dina Brov	wn		/
Signature	14 9	15	Date 2/25/11

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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#:

10124003

PAGE:

1 of 3

PO#:

AF 76748

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

DCNR 006-04 Well Pad

RECEIVED FOR LAB BY: CMS

DATE: 12/28/2010 13:50

Page 1 of 3

SAMPLE	E: Air Cuttings		Lab ID: 10124003-001A	Grab			
S	SAMPLED BY: DJD	;	Sample Time: 12/28/2010 11:40	01.05			
	Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
To	otal Petroleum Hydrocarbons	24000 mg/Kg	EPA 9071		12/29/10 15:10	12/29/10	
	Sample Note: Analysis performed by M		ories, Inc-Erie Division.				
SAMPLE	E: Air Cuttings		Lab ID: 10124003-001B	Grab		P-1-2-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
S	SAMPLED BY: DJD	;	Sample Time: 12/28/2010 11:40				
	Toot	Dogult	i do do o d	<u>SLOQ</u>	Amabasia Otant	Analusia Fust	A l
14.	<u>Test</u> oisture	<u>Result</u> 67.1 %	<u>Method</u> Moisture Calc.	0.01	Analysis Start 01/03/11 11:30	Analysis End 01/04/11	
		< 0.1 %	EPA 9095A	0.01	12/28/10 17:10	12/28/10	KMF-SA
	ee Liquid			0.1			IC-SA
pH	1	8.63@19.8°C	EPA 9045C		12/29/10 11:41	12/29/10	SG-SA
SAMPLE	E: Air Cuttings		Lab ID: 10124003-001C	Grab			
S.	AMPLED BY: DJD	\$	Sample Time: 12/28/2010 11:40				
	Tank	Dogult	\$ death and	SLOQ	A L ! O4 4	A 1 1 1	A1 - 1 +
C.	<u>Test</u> odium	Result	Method EDA 6010B	60.1	Analysis Start	Analysis End	
		400 mg/Kg	EPA 6010B	60.1	12/30/10 10:00	01/03/11	GSR-CV
	nloride	237 mg/Kg	EPA 300.0	47.4	01/04/11 12:43	01/05/11	HDP-CV
	STM D Chloride	< 25.0 mg/L	EPA 300.0	25.0	01/07/11 15:12	01/07/11	HDP-CV
	STM D Ph	8.31 @ 19.1°C	SM4500H+B		01/07/11 14:22	01/07/11	LTW-CV
Су	vanide, Reactive	< 0.2 mg/Kg	SW 7.3.3.2	0.2	01/06/11 9:28	01/07/11	HDP-CV
Re	eactive Sulfide	< 64 mg/Kg	SW846 7.3	64	01/10/11 8:55	01/10/11	LTW-CV
SAMPLE	E: TCLP Leachate of Air Cutting	S	Lab ID: 10124003-001E	Grab			
S	AMPLED BY: DJD	5	Sample Time: 12/29/2010 8:00				
	T. 4	D . 4		SLOQ			
	Test	Result	Method 7470A	0.0000	Analysis Start	Analysis End	
	ercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	12/30/10 11:30	01/03/11	KW-CV
	senic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	12/30/10 9:30	01/03/11	GSR-CV
	arium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	12/30/10 9:30	01/03/11	GSR-CV
Ca	admium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	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	Carris M. Daris	DATE:	1/12/2011	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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

TEST REPORT

SEND DATA TO:

NAME: Dina Brown WO#:

10124003

COMPANY:

Talisman Energy USA, Inc.

PAGE:

2 of 3

ADDRESS:

337 Daniel Zenker Dr

PO#:

AF 76748

Horseheads, NY 14845

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR 006-04 Well Pad

Result

< 0.10 mg/L

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13	3:50		F	age 2 of 3
Chromium - TCLP extracted	< 0.500 mg/L	EPA 60	10B 0.500	12/30/10 9:30	01/03/11	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 60	10B 0.100	12/30/10 9:30	01/03/11	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 60	10B 0.500	12/30/10 9:30	01/03/11	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 60	10B 0.100	12/30/10 9:30	01/03/11	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 60	10B 0.500	12/30/10 9:30	01/03/11	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 60	10B 0.100	12/30/10 9:30	01/03/11	GSR-CV
Strontium - TCLP extracted	5.72 mg/L	L EPA 60	10B 0.050	12/30/10 9:30	01/03/11	GSR-CV
Zinc - TCLP extracted	1.84 mg/L	EPA 60	10B 0.200	12/30/10 9:30	01/03/11	GSR-CV

SAMPLE: TCLP Leachate of Air Cuttings

SAMPLED BY: DJD

Test

Pyridine

Lab ID: 10124003-001F

Method

EPA 8270C

Sample Time: 01/06/2011 8:00

SLOQ

Grab

Analysis Start Analysis End Analyst * 0.10 01/10/11 10:20 01/10/11 RHH-SA

01/10/11 10:20 EPA 8270C 1,4-Dichlorobenzene < 0.10 mg/L 0.10 01/10/11 RHH-SA 01/10/11 10:20 o-Cresol < 0.10 mg/L **EPA 8270C** 0.10 01/10/11 RHH-SA 0.10 01/10/11 10:20 p-Cresol/m-Cresol < 0.10 mg/L EPA 8270C 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 0.10 01/10/11 10:20 2,4,5-Trichlorophenol < 0.10 mg/L **EPA 8270C** 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 < 0.10 mg/L **EPA 8270C** 0.10 01/10/11 10:20 01/10/11 Hexachlorobenzene RHH-SA

SAMPLE: TCLP Leachate of Air Cuttings

Lab ID: 10124003-001G

Sample Time: 01/06/2011 8:00

SLOQ

0.10

Grab

SAMPLED BY:

Naphthalene

Analysis Start

Analysis End Analyst *

Test Benzene

Result < 0.0250 mg/L

< 0.10 mg/L

Method **EPA 8260B**

EPA 8270C

0.0250 01/07/11 9:22

01/11/11 8:25

01/07/11

01/11/11

CTM-SA

RHH-SA

REMARKS:

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Value above calibration range but within annually verified linear range

	//	
MANAGER	Carri M. Darks	DATE: 1/12/201

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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) 562-4000

(607) 562-4001

Horseheads, NY 14845

TEST REPORT

WO#:

10124003

PAGE:

3 of 3

PO#:

AF 76748

PWS ID#

DCNR 006-04 Well Pad

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

Page 3 of 3

RECEIVED FOR LAB BY: CMS	DATE:	12/28/2010 13:50			Pa	age 3 of 3
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
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: 10124003-001H	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00				
Took	Desult	Madhad	<u>SLOQ</u> .	Ameliale Otari	A	A b +
<u>Test</u>	<u>Result</u> < 5.00 mg/kg	<u>Method</u> SW846/9023	5.00	Analysis Start 01/11/11 15:00	Analysis End 01/11/11	Analyst *
Total Organic Halides	- -	300040/9023	5.00	01/11/11 15.00	01/11/11	
Sample Note: Analysis performed l	by Analytical Services, inc.					
SAMPLE: Air Cuttings	L	ab ID: 10124003-001I	Grab			
SAMPLED BY: DJD	Sample	Time: 12/29/2010 8:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Ignitability	Negative AS IS	SW846 1030		01/07/11 14:00	01/07/11	Allalyst
Sample Note: Analysis performed b	o	044040 1000		577771 14.00	01/0//11	
Gample Note. Analysis performed t	y GO Laboratories.					

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
- L Value above calibration range but within annually verified linear range

	/1	¬ .			
MANAGER	aui	M. Davis	DATE:	1/12/2011	



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 legib ttache	oly printed in the spa d sheet as Form 26	curately completed. All requaces provided. If additional s 6R, reference the item num heets needs to match the dat	pace is necessary, ider ber and identify the o	ntify 🗀		USE (eneral Notes
Genera	l Refer	rence 287.54						
Date Pr	epared	d/Revised	February 11, 2011					
		SECTION	A. CLIENT GENERATO	R OF THE WASTE) I	NFOF	RMATION		
Compa								
		ergy USA Inc.						
	•	y, Name of Parent Co	ompany					rator ID#
		ergy Inc. iling Address Line 1		Company Mailing Addre	nee Lin	N/A		
50 Pen				Company Maning Addit	235 LIII	le Z		
		dress Last Line – Cit	v State	Zip+4	F	Phone		Ext
Warren			PA	15086	-	724) 814-53	00	
Compa	ny Cor	ntact Last Name	First Name	MI	,	Suff		
Brown			Dina			-		
Municip				County				
Warren Contact		e Ext	Contact Email Address	Allegheny				
(724) 8		-	dybrown@talismanusa.	com				
			pany Mailing Address (noted				Yes	⊠ No
			generation and storage. Drill		lurina n	ш atural gas dri		erations at
			e located at 151 Carey Road, W					
					<u> </u>	71. Tracto lo c		
on site. Municip	ality	Ward	_		<u></u>	State	PA	
	ality		County Tioga	1				
		Ward	County Tioga		ĺ			
Municip	ual	Ward Re	County Tioga	1		State		
Municip Resid	ual	Ward Re	County Tioga SECTION B. WAS sidual Waste de Description	TE DESCRIPTION	l □ cu	State Unit of Measure yd		Time Frame
Municip Resid Waste (ual	Ward Re Cod	County Tioga SECTION B. WAS sidual Waste de Description and gas)	Amount 5,297]	State Unit of Measure		Time
Resid Waste 0	ual Code	Ward Re Cod Drill cuttings (oil ar	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL	Amount 5,297 PROPERTIES	l cu lb	State Unit of Measure yd		Time Frame
Resid Waste 0 810	ual Code pH Ra	Ward Re Cod Drill cuttings (oil ar	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL I 6.11 to 10.59	Amount 5,297 PROPERTIES (based on analyses or	l cu lb	State Unit of Measure yd		Time Frame
Resid Waste 0 810	ual Code pH Ra	Ward Re Cod Drill cuttings (oil ar	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL	Amount 5,297 PROPERTIES (based on analyses or ethod 9095)	l cu lb	State Unit of Measure yd		Time Frame
Resid Waste 0 810	ual Code pH Ra	Ward Re Cod Drill cuttings (oil ar	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095)	l cu lb	State Unit of Measure yd		Time Frame
Resid Waste 0 810	ual Code pH Ra Physic	Ward Re Cod Drill cuttings (oil ar	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure)	□ cu □ lb	State Unit of Measure yd	PA	Time Frame One Time
Resid Waste 0 810	ual Code pH Ra Physic	Ward Re Cod Drill cuttings (oil ar nge cal State	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL I 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient tempera	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure)	cu lb	State Unit of Measure yd ☐ gal	PA	Time Frame One Time
Resid Waste 0 810	ual Code pH Ra Physic	Ward Re Cod Drill cuttings (oil ar nge cal State	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL I 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperature) Color Greyish Black	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Oddid Phases of Separation	cu bknowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh	PA	Time Frame One Time
Resid Waste C 810	ual Code pH Ra Physic	Ward Re Cod Drill cuttings (oil ar nge cal State	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of second	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Odd of Phases of Separation Soil and Reserved Pressure)	cu bknowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh	PA	Time Frame One Time
Resid Waste 0 810 a. b.	ual Code pH Ra Physic	Ward Re Cod Drill cuttings (oil ar nge cal State cal Appearance	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient tempers Color Greyish Black Number of Solid or Liqui Describe each phase of 30.	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) C Odd id Phases of Separation separation. Soil and R	cu lb knowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh One agments	PA	Time Frame One Time oleum
Resid Waste 0 810 c.	ual Code pH Ra Physic Physic	Ward Re Cod Drill cuttings (oil and	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of Section 1. CHEMICAL ANALY memical characterization of the section 1. County Tion 1. County T	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Oddid Phases of Separation separation. Soil and Reserved as described in the content of the content o	cu lb knowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh One agments	PA	Time Frame One Time oleum
Resid Waste 0 810 a. b. a. i	ual Code PH Ra Physic The re instruc A deta	Ward Re Coo Drill cuttings (oil ar inge cal State cal Appearance sults of a detailed chetions, is attached. iled description of the	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperate of Solid or Liquid Describe each phase of second control of the waste sampling method is	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Odd Phases of Separation separation. Soil and Reserved attached.	cu lb knowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh One agments	PA The second of the second o	Time Frame One Time oleum No
Resid Waste C 810 a. b. c. ib. a. i	ual Code PH Ra Physic The re instruc A deta	Ward Re Coo Drill cuttings (oil ar inge cal State cal Appearance sults of a detailed chections, is attached. iled description of the pality assurance/qua	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperation of Solid or Liquid Describe each phase of Section 1. CHEMICAL ANALY memical characterization of the section 1. County Tion 1. County T	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Odd Phases of Separation separation. Soil and Reserved attached.	cu lb knowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh One agments	PA	Time Frame One Time oleum
Resid Waste C 810	ual Code PH Ra Physic The re instruc A deta The quattach	Ward Re Coo Drill cuttings (oil ar inge cal State cal Appearance sults of a detailed chetions, is attached. iled description of the pality assurance/qualed.	County Tioga SECTION B. WAS sidual Waste de Description and gas) 1. GENERAL 6.11 to 10.59 Liquid Waste (EPA M Solid (EPA Method 90 Gas (ambient temperate of Solid or Liquid Describe each phase of second control of the waste sampling method is	Amount 5,297 PROPERTIES (based on analyses or ethod 9095) 095) ature & pressure) (Oddid Phases of Separation separation. Soil and Resistance Amount Separation attached. Dyed by the laboratory(cu lb knowled	State Unit of Measure yd ☐ gal ☑ ton dge) Earthy / Sligh One agments	PA The second of the second o	Time Frame One Time oleum No

2000		3. Process Description	N G OCHEMANC ANA	OI IINLINI O		
a.		the manufacturing and/or the instructions, is attach		esses producing	⊠ Yes	☐ No
b.	A schematic of the manual as specified in the instruc	facturing and/or pollution of tions, is attached.	control processes pro	ducing the waste,	∑ Yes	☐ No
C.		tion submitted are confide described in the instruction		on for Yes	☐ No	⊠ N/A
	SEC	CTION C. MANAGEN	IENT OF RESIDU	JAL WASTE		
20.77		1. PROCESSING OF	DISPOSAL FACILITY(II	ES)	7	
The a	rea below (ad.) will accom	modate the identification of	of two facilities. Attacl	h additional sheets	if necessary	•
a.	Solid waste permit number 9-0232-00003	er(s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	Hyland Landfill				
ļ	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				
ĺ	Title					
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped	to processing or disposal	facility in the previous	s year.		
	3,603	cu yd gal	☐ Ib 🛛 tor	n (check one))	
a.	Solid waste permit number 8-4630-00010	er(s) for processing or disp	oosal facility being util	lized.		:
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	e Road			
ĺ			<u>C 1 (Odd</u>			
	Address Line 1					
	Address City State ZIP	Painted Post	NY	14870		
		Painted Post Erwin Twp		14870 Steuben		
C.	Address City State ZIP		NY			
c.	Address City State ZIP Municipality	Erwin Twp	NY			
C.	Address City State ZIP Municipality Facility Contact Name	Erwin Twp	NY		ella.com	
c.	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal	NY County Email Address	Steuben joe.boyles@case		
	Address City State ZIP Municipality Facility Contact Name Title Phone	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal	NY County Email Address facility in the previous	Steuben joe.boyles@case		
	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped 1,066	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal 2. Ben	NY County Email Address	Steuben joe.boyles@case		SHOP ACKNOWLED TO ANY STOCK STATE (TO C. AND COLLECT)
	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal 2. Ben	NY County Email Address facility in the previous	Steuben joe.boyles@case		∑ No
d.	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped 1,066 Has the waste been appro	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal 2. Beyoved for beneficial use? ermit number or approval	NY County Email Address facility in the previous	Steuben joe.boyles@case		SHOP ACKNOWLED TO ANY STOCK STATE (TO C. AND COLLECT)
d.	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped 1,066 Has the waste been appro If "Yes", list the general p Volume of waste beneficia	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal 2. Beyoved for beneficial use? ermit number or approval ally used in the previous ye	NY County Email Address facility in the previous	Steuben joe.boyles@case s year. (check one)	Yes	SHOP ACKNOWLED TO ANY STOCK STATE (TO C. AND COLLECT)
d.	Address City State ZIP Municipality Facility Contact Name Title Phone Volume of waste shipped 1,066 Has the waste been appro	Erwin Twp Joseph Boyles (607) 937-6044 (585) 466-7271 to processing or disposal cu yd gal 2. Beyoved for beneficial use? ermit number or approval	NY County Email Address facility in the previous	Steuben joe.boyles@case s year. n (check one)	Yes	SHOP ACKNOWLED TO ANY STOCK STATE (TO C. AND COLLECT)

		3. PROCESS DESCRIPTION				
a.	A detailed description of the waste, as specified in	the manufacturing and/or the instructions, is attach	pollution control proc ed.	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 RESIDI	JAL WASTE		
			R DISPOSAL FACILITY(I			1.5
The a	rea below (ad.) will accomi	modate the identification of	of two facilities. Attac	h additional sheets	if necessary	/.
a.	Solid waste permit numbe 100361	er(s) for processing or disp	oosal facility being uti	lized.		
b.	Facility Name	McKean County Lar	ndfill			
ļ	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 530	☐ cu yd ☐ gal	☐ lb to	n (check one)		
a.	Solid waste permit numbe 8-0728-00004	r(s) for processing or disp	oosal 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		facility in the previou			******
	59	cu yd gal	∐ lb ⊠ to	n (check one)		
		2. BEN	IEFICIAL USE			
a.	Has the waste been appro	ved for beneficial use?			Yes	⊠ No
	If "Yes", list the general po	ermit number or approval	number.			
b.	Volume of waste beneficia					
	0	cu yd gal	☐ Ib ☐ tor	n (check one)		
		·····		***************************************		

ž.		3. PROCESS DESCRIPTION & SCHEMATIC ATTACHMENTS
a.		the manufacturing and/or pollution control processes producing Yes No the instructions, is attached.
b.	A schematic of the manual as specified in the instruc	acturing and/or pollution control processes producing the waste, No litions, 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. PROCESSING OR DISPOSAL FACILITY(IES)
The ar	ea below (ad.) will accom	modate the identification of two facilities. Attach additional sheets if necessary.
a.	100945	er(s) for processing or disposal facility being utilized.
b.	Facility Name	Cumberland County Landfill
l	Address Line 1	135 Vaughn Road
	Address Line 1	
	Address City State ZIP	Shippensburg 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.	39	to processing or disposal facility in the previous year. Cu yd gal lb ton (check one)
а.	•	r(s) for processing or disposal facility being utilized.
b.	Facility Name	
	Address Line 1	
	Address Line 1	
	Address City State ZIP	0
	Municipality	County
C.	Facility Contact Name	
	Title Phone	Email Address
d.		to processing or disposal facility in the previous year. cu yd gal lb ton (check one)
	and the first of t	2. Beneficial Use
	Has the waste been appro	ved for beneficial use?
a.		
	If "Yes", list the general p	ermit number or approval number.
b.	If "Yes", list the general p	ermit number or approval number. Illy used in the previous year. Cu yd Gal Gal ton (check one)

Name of Responsible Official

Dina Brown

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

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10084204

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#:

10084204

PAGE:

1 of 2

PO#:

AF 76729

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702 Pad 5

TEST REPORT

DATE	E: 08/24/2010 15:10			Pa	age 1 of 2
San	Lab ID: 10084204-001A pple Time: 08/24/2010 12:56	Grab SLOQ			
Result	<u>Method</u>	<u> </u>	Analysis Start	Analysis End	Analyst *
870 mg/Kg	EPA 9071		08/30/10 10:40	08/30/10	
by Microbac -Erie					
	Lab ID: 10084204-001B	Grab			
Sam	ple Time: 08/24/2010 12:56				
D 14	A.4 - 43	<u>SLOQ</u>	Associate Otto	A .1 . F	A 1 (*
		0.04			
					IC-SA
		0.1			IC-SA
10.58@21.1°C	EPA 9045C		08/26/10 16:50	08/26/10	SG-SA
	Lab ID: 10084204-001C	Grab			
Sam	ple Time: 08/24/2010 12:56				
Pocult	Mathad	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
		230			RMD-CV
	EI / (0010B				
		103			HDP-CV
51.4 %	3W254UG		06/26/10 14:30	08/27/10	IC-SA
ings	Lab ID: 10084204-001E	Grab			
Sam	ple Time: 08/25/2010 8:00				
Dooult	Mathad	SLOQ	Amalysis Start	Analysis End	Amalust *
		0.0000			Analyst *
· ·					KW-CV
•					RMD-CV
5					RMD-CV
•					RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	08/26/10 10:30	08/26/10	RMD-CV
< 0.100 mg/L	EPA 6010B	0.100	08/26/10 10:30	08/26/10	RMD-CV
< 0.500 mg/L	EPA 6010B	0.500	08/26/10 10:30	08/26/10	RMD-CV
	Sam Result Sam Result Sam Sam Result Sam Sam Result S1.4 % C Sam Result S19 mg/Kg-dry S60 mg/Kg-dry S1.4 % Sings Sam Result C C C C C C C C C	Sample Time: 08/24/2010 12:56 Result Method Stample Time: 08/24/2010 12:56 Description of the color of the c	Lab ID: 10084204-001A Sample Time: 08/24/2010 12:56 SLOQ	Lab ID: 10084204-001A Sample Time: 08/24/2010 12:56 SLOQ Analysis Start 08/30/10 10:40	Lab ID: 10084204-001A Sample Time: 08/24/2010 12:56 SLOQ Analysis Start O8/30/10 10:40 O8/30/10 O8/30/10

REMARKS:

- * 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:	8/31/2010	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10084204

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#:

10084204

PAGE:

2 of 2

PO#:

AF 76729

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

DCNR58702 Pad 5

RECEIVED FOR LAB BY: DLM2 DATE: 08/24/2010 15:10 Page 2 of 2 Nickel - TCLP extracted < 0.100 mg/L **EPA 6010B** 0.100 08/26/10 10:30 08/26/10 RMD-CV Selenium - TCLP extracted < 0.500 mg/L 0.500 EPA 6010B 08/26/10 10:30 08/26/10 RMD-CV Silver - TCLP extracted < 0.100 mg/L EPA 6010B 0.100 08/26/10 10:30 08/26/10 RMD-CV Zinc - TCLP extracted < 0.200 mg/L 0.200 EPA 6010B 08/26/10 10:30 08/26/10 RMD-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	DAT	E:	8/31/2010	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10085052

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#: 10085052

PAGE: 1 of 2

PO#: AF76729

PWS ID#

PHONE: (607) 562-4000

FAX: (607) 562-4001

DCNR 58702 Pad 5

RECEIVED FOR LAB BY: BMM DATE: 08/30/2010 13:33 Page 1 of 2

TEST REPORT

SAMPLE: Air Cuttings	L	ab ID: 10085052-001A	Grab			
SAMPLED BY: SO	Sample	Time: 08/30/2010 9:55	SLOQ			
<u>Test</u>	<u>Result</u>	Method	<u>323 Q</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 374 mg/Kg	EPA 9071	374	09/01/10 16:00	09/01/10	
Sample Note: Analysis performed	d by Microbac Laboratories, Ir	ncErie Division				
SAMPLE: Air Cuttings	L	ab ID: 10085052-001B	Grab			
SAMPLED BY: SO	Sample	Time: 08/30/2010 9:55				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	15.5 %	Moisture Calc.	0.01	09/01/10 13:00	09/02/10	SG-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/01/10 14:25	09/01/10	IC-SA
pH	7.83@21.5°C	EPA 9045C		08/31/10 14:00	08/31/10	SG-SA
SAMPLE: Air Cuttings	L	ab ID: 10085052-001C	Grab			
SAMPLED BY: SO	Sample	Time: 08/30/2010 9:55				
<i>,</i>	.	\$4. (L.)	SLOQ			
<u>Test</u>	Result	Method FDA COLOR	400.0	Analysis Start	Analysis End	
Sodium	837 mg/Kg-dry	EPA 6010B	100.0	08/31/10 12:00	09/01/10	GSR-CV
Chloride	638 mg/Kg-dry	EPA 300.0	59.2	08/31/10 16:10	09/01/10	HDP-CV
Percent Moisture	15.5 %	SM2540G		09/01/10 13:00	09/02/10	SG-SA
SAMPLE: Air Cuttings	L	ab ID: 10085052-001E	Grab			
SAMPLED BY: SO	Sample	Time: 08/31/2010 8:00	01.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/01/10 13:00	09/01/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/01/10 10:00	09/01/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/01/10 10:00	09/01/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/01/10 10:00	09/01/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/01/10 10:00	09/01/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/01/10 10:00	09/01/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/01/10 10:00	09/01/10	GSR-CV
	5					•

REMARKS:

	// > .		
MANAGER	Carrie M. Darkes	DATE:	9/3/2010
	and the contract of the contra		

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

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10085052

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#:

10085052

PAGE:

2 of 2

PO#:

AF76729

PWS ID#

PHONE: FAX:

(607) 562-4000

DCNR 58702 Pad 5

(607) 562-4001

TEST REPORT

RECEIVED FOR LAB BY: BIMIM	DATE:	08/30/2010 13:33			P	age 2 of 2
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/01/10 10:00	09/01/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/01/10 10:00	09/01/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/01/10 10:00	09/01/10	GSR-CV
Zinc - TCLP extracted	2.78 mg/L	EPA 6010B	0.200	09/01/10 10:00	09/01/10	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; ŠA = Benchmark Analytics, Inc. Sayre, PA

MANAGER	Charles	in Davis	DATE:	9/3/2010
	unu	701. 00-00-2		

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10085276

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#:

10085276

PAGE:

1 of 1

PO#:

AF76729

PWS ID#

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(607) 562-4000

(607) 562-4001

DATE: 08/31/2010 16:10

Page 1 of 1

RECEIVED FOR LAB BY: DLIMZ	DATE:	08/31/2010 16:10			Pa	age I of I
SAMPLE: Inv. Cuttings SAMPLED BY: SG		ab ID: 10085276-001A Time: 08/31/2010 14:00	Compo	site		
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	9.20 %	Moisture Calc.	0.01	09/01/10 13:00	09/02/10	SG-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/01/10 14:35	09/01/10	IC-SA
рН	8.79@22.3°C	EPA 9045C		09/01/10 16:15	09/01/10	SG-SA
SAMPLE: Inv. Cuttings	L	ab ID: 10085276-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/31/2010 14:00				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	86000 mg/Kg	EPA 9071	170	09/01/10 16:00	09/01/10	Allaiyst
Sample Note: Analysis performed			110	00/0 // 10 10:00	00/01/10	
SAMPLE: TCLP Leachate of Inv. Cu	ttings L	ab ID: 10085276-001D	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/31/2010 14:00				
Test	Popult	Method	SLOQ	Analysis Start	Analysis End	Analyst *
<u>rest</u> Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	<u>Method</u> EPA 7470A	0.0008	09/02/10 9:20	Analysis End 09/03/10	Analyst * RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/03/10 10:10	09/03/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/03/10 10:10	09/03/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/03/10 10:10	09/03/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/03/10 10:10	09/03/10	RMD-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/03/10 10:10	09/03/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/03/10 10:10	09/03/10	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/03/10 10:10	09/03/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/03/10 10:10	09/03/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/03/10 10:10	09/03/10	
Zinc - TCLP extracted	0.206 mg/L	EPA 6010B	0.100	09/03/10 10:10	09/03/10	RMD-CV
ZIIIC - I OLF EXII ACIEU	U.ZUU MYL.	EFA OUTUD	0.200	03/03/10 10.10	09/03/10	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	Cani	M. Davis	DATE:	9/3/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10093526

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#:

10093526

PAGE:

1 of 3

PO#:

AF76729

PWS ID#

0.500 09/24/10 10:30

0.100 09/24/10 10:30

0.200 09/24/10 10:30

09/26/10

09/26/10

09/26/10

RMD-CV

RMD-CV

RMD-CV

PHONE:

FAX:

(607) 562-4000

(607) 562-4001

DCNR58702 Pad 5

RECEIVED FOR LAB BY: DLM2

DATE: 09/22/2010 11:10

TEST REPORT

Page 1 of 3

RECEIVED FOR LAB B1. DLIVIZ	DAT	E. 09/22/2010 11:10				age 1 of 3
SAMPLE: Inv. Cuttings & ASR		Lab ID: 10093526-001A	Grab			
SAMPLED BY: SG	Sar	mple Time: 09/21/2010 15:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u>stod</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	102000 mg/Kg	EPA 9071		09/24/10 8:30	09/24/10	
Sample Note: Analysis performed	oy Microbac-Erie					
SAMPLE: Inv. Cuttings & ASR		Lab ID: 10093526-001B	Grab			
SAMPLED BY: SG	Sar	mple Time: 09/21/2010 15:00				
Toot	Dogult	Mothod	<u>SLOQ</u>	Analysis Otast	Analysis Fod	Amobiet *
Test	Result	<u>Method</u>	0.04	Analysis Start	Analysis End	
Moisture	21.0 %	Moisture Calc.	0.01	09/23/10 9:10	09/24/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/22/10 17:10	09/22/10	IC-SA
рН	10.59 @ 21.3°C	EPA 9045C		09/23/10 16:37	09/23/10	KAL-SA
SAMPLE: TCLP Leachate of Inv. Cut	tings & ASR	Lab ID: 10093526-001D	Grab			
SAMPLED BY: SG	San	nple Time: 09/23/2010 7:30				
 .	5 "		<u>SLOQ</u>			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/24/10 11:00	09/27/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/24/10 10:30	09/26/10	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Copper - TCLP extracted	0.397 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Nickel - TCLP extracted	0.255 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV

EPA 6010B

EPA 6010B

EPA 6010B

REMARKS:

Selenium - TCLP extracted

Silver - TCLP extracted

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

< 0.500 mg/L

< 0.100 mg/L

28.1 mg/L

Value above calibration range but within annually verified linear range

MANAGER	Cani	M. Davis	DAT	E: 9/27/2010	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10093526

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

TEST REPORT

WO#:

PAGE: 2 of 3

AF76729 PO#:

10093526

PWS ID#

0.200 09/24/10 10:30

09/26/10

RMD-CV

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702 Pad 5

RECEIVED FOR LAB BY: DLM2

DATE: 09/22/2010 11:10

Page 2 of 3

						.5
SAMPLE: Air Cuttings & ASR SAMPLED BY: SG	Sar	Lab ID: 10093526-002A nple Time: 09/21/2010 14:45	Grab			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	2820 mg/Kg	EPA 9071		09/24/10 8:30	09/24/10	- Midifot
Sample Note: Analysis performed						
SAMPLE: Air Cuttings & ASR		Lab ID: 10093526-002B	Grab			~
SAMPLED BY: SG	Sar	nple Time: 09/21/2010 14:45				
			<u>SLOQ</u>			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Moisture	29.9 %	Moisture Calc.	0.01	09/23/10 9:10	09/24/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/22/10 17:15	09/22/10	IC-SA
рH	8.33 @ 21.3°C	EPA 9045C		09/23/10 16:39	09/23/10	KAL-SA
SAMPLE: TCLP Leachate of Air Cu	ttings & ASR	Lab ID: 10093526-002D	Grab			
SAMPLED BY: SG	San	nple Time: 09/23/2010 7:30	0.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/24/10 11:00	09/27/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/24/10 10:30	09/26/10	RMD-CV
Cadmium - TCLP extracted	0.186 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Copper - TCLP extracted	0.872 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Lead - TCLP extracted	2.25 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Nickel - TCLP extracted	0.760 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	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

83.0 mg/L

Value above calibration range but within annually verified linear range

	//		
MANAGER	Carri M. Davis	DATE:	9/27/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10093526

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

TEST REPORT

WO#:

10093526

PAGE:

3 of 3

PO#:

AF76729

PWS ID#

DCNR58702 Pad 5

PHONE:

FAX:

RECEIVED FOR LAB BY: DLM2	DATI	E: 09/22/2010 11:10			Pa	age 3 of 3
SAMPLE: Auto Shredder Residue	e (ASR) Fluff	Lab ID: 10093526-003A	Grab			
SAMPLED BY: SG	San	nple Time: 09/21/2010 14:50	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u> SLOQ</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	43600 mg/Kg	EPA 9071		09/24/10 8:30	09/24/10	
Sample Note: Analysis perform	ed by Microbac-Erie					
SAMPLE: Auto Shredder Residue	(ASR) Fluff	Lab ID: 10093526-003B	Grab			
SAMPLED BY: SG	San	nple Time: 09/21/2010 14:50				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Moisture	8.12 %	Moisture Calc.	0.01	09/23/10 9:10	09/24/10	IC-SA
Free Liquid	< 0.1 %	EPA 9095A	0.1	09/22/10 17:20	09/22/10	IC-SA
рН	8.41 @ 21.4°C	EPA 9045C	•••	09/23/10 16:40	09/23/10	KAL-SA
SAMPLE: TCLP Leachate of Auto	Shredder Residue	Lab ID: 10093526-003D	Grab			
(ASR) Fluff						
SAMPLED BY: SG	San	nple Time: 09/23/2010 7:30	SLOQ			
<u>Test</u>	Result	Method	<u>OLOQ</u>	Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	09/24/10 11:00	09/27/10	KW-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	09/24/10 10:30	09/26/10	RMD-CV
Cadmium - TCLP extracted	0.282 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Copper - TCLP extracted	1.67 mg/L	L EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Lead - TCLP extracted	2.34 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Nickel - TCLP extracted	0.580 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	09/24/10 10:30	09/26/10	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	09/24/10 10:30	09/26/10	RMD-CV
Zinc - TCLP extracted	110 mg/L	EPA 6010B	0.200	09/24/10 10:30	09/26/10	RMD-CV

REMARKS:

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

MANAGER	Carrie	M. Davis	DATE	9/27/2010	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121724

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#:

10121724

PAGE:

1 of 3

PO#:

AF 76735

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

TEST REPORT

PWS ID#

DCNR\$8702 Pad 5

Ignitability

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Lab ID: 10121724-001A

Sample Time: 12/08/2010 17:44

Page 1 of 3

SAMPLE: Air or Gel Cuttings SAMPLED BY: SG **Test**

Result

Method Neg ASIS °F SW846 1030 SLOQ

Grab

Analysis Start Analysis End Analyst*

12/15/10 13:30 12/15/10

Sample Note: Analysis performed by QC Laboratories

SAMPLE: Air or Gel Cuttings SAMPLED BY: SG

Lab ID: 10121724-001C Grab Sample Time: 12/08/2010 17:44

SLOQ

Result Analysis End Analyst * <u>Test</u> <u>Method</u> **Analysis Start** 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: Air or Gel Cuttings SAMPLED BY: SG

Lab ID: 10121724-001D Sample Time: 12/08/2010 17:44

Grab SLOQ

Grab

<u>Test</u> Result % Solids 73.27 % Wght. 17.38 % Wght. **Total Volatile Solids**

Method SM2540B EPA 160.4

Analysis Start 0.10 12/10/10 17:00 12/10/10 8:00 0.01

Analysis End Analyst* 12/13/10 IC-SA 12/14/10 NFM-SA

SAMPLE: TCLP Leachate of Air or Gel Cuttings SAMPLED BY: SG

Lab ID: 10121724-001F

Sample Time: 12/11/2010 12:45

SLOO

			SLUG			
<u>Test</u>	Result	<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
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-\$A
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
2,4,6-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA

REMARKS:

MANAGER

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

DATE:

12/16/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121724

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#:

10121724

PAGE:

2 of 3

PO#:

AF 76735

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

PWS ID#

DCNRS8702 Pad 5

RECEIVED FOR LAB BY: RMI

DATE: 12/09/2010 15:45

Page 2 of 3

RECEIVED FOR LAB BY: RML	DATE:	12/09/2010 15:45			Pa	ige 2 or 3
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Pentachloropheno!	< 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
AMPLE: TCLP Leachate of Air of	or Gel Cuttings	ab ID: 10121724-001G	Grab			
SAMPLED BY: SG	Sample	Time: 09/23/2010 7:30				
Tank	; Pinnult	Madhad	SLOQ	Analysis Start	Analysia End	Analunt *
Test	Result	Method	0.050	Analysis Start	Analysis End	
Strontium - TCLP extracted	3.53 mg/L	EPA 6010B	0.050	09/24/10 10:30	09/26/10	RMD-CV
Sample Note: Sample for TCL	P extracted Strontium was received	ved on 9/22/10 at 11:10 b	y DLM2.			
AMPLE: TCLP Leachate of Air	or Gel Cuttings	ab ID: 10121724-001H	Grab			
SAMPLED BY: SG	Sample '	Time: 12/11/2010 12:45	SLOQ			
Test	Result	Method	<u> </u>	Analysis Start	Analysis End	Analyst *
pH	6.11@16.8°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
AMPLE: ZHE Extract of Air or G	iel Cuttings	ab ID: 10121724-0011	Grab			
SAMPLED BY: SG	Sample 1	Time: 12/11/2010 12:45				
	<u> -</u>		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

REMARKS:

Toluene

Isopropylbenzene

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

EPA 8260B

0.0250 12/13/10 8:11

0.0250 12/13/10 8:11

0.0250 12/13/10 8:11

12/13/10

12/13/10

12/13/10

CTM-SA

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

< 0.0250 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: 10121724

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#:

10121724

PAGE:

3 of 3

PO#:

AF 76735

PHONE: (607) 562-4000

FAX:

(607) 562-4001

TEST REPORT

PWS ID#

DCNRS8702 Pad 5							
RECEIVED FOR LAB BY: RML	DA1	TE: 12/09	/2010 15:45			Pa	age 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 or Ge	l Cuttings	Lab ID:	10121724-001J	Grab			
SAMPLED BY: SG	Sa	mple Time:	12/10/2010 11:15				
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	142 mg/L	В	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Air or Ge	l Cuttinas	Lab ID:	10121724-001L	Grab			
SAMPLED BY: SG	•	mple Time:	12/10/2010 11:15				
_	· 	,		SLOQ			
Test	Result		Method		Analysis Start	Analysis End	Analyst*
pH	7.13@16.3°C		SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1410 mg/L		SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Air or Gel Cuttings	• •	Lab ID:	10121724-001M	Grab			
SAMPLED BY: SG	Sa	mple Time:	12/10/2010 10:25	61.00			
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	<u> </u>
Sample Note: Analysis performed	by 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

MANAGER	Carrie M. Oarles	DATĒ:	12/16/2010

REFRIGERATE SAMPLES AFTER COLLECTION REFRIGERATE SAMPLES AFTER COLLECTION REFRIGERATE SAMPLES AFTER COLLECTION REFRIGERATE SAMPLES AFTER COLLECTION RESULTS ARE BEING USED FOR: Description	CHAIN OF CUSTODY	Benc	PAGE 1 OF 1
GONTACT Steve Gridley REFRIGERATE SAMPLES AFTER COLLECTION DW DRINKING WATER SL SLUDGE GROUND WATER SO SOIL LANDFILL Mostoller WW WASTE WATER OTHER WATER SU SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller TYPES ☑ NO TRANSPORT ARE SPECIAL DETECTION LIMITS NEEDED: ☐YES / ☑ NO DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADEP IS A QC PACKAGE NEEDED? SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller ☐ ☐YES ☑ NO TRANSPORT TRANSPORT F	REPORT TO: Talisman / UEG	2566 Penns	
REFRIGERATE SAMPLES AFTER COLLECTION DW DRINKING WATER SL SLUDGE GW GROUND WATER SO SOIL SW SURFACE WATER HZ HAZARDOUS WW WASTE WATER OTHER WW WASTE WATER OTHER WW WASTE WATER OTHER DEPONITION OF THE PROMITION	geowetlands@aol.com	- W/O#: 10121/24	
AFTER COLLECTION DW DRINKING WATER SL SLUDGE GW GROUND WATER SO SOIL SW SURFACE WATER HZ HAZARDOUS WW WASTE WATER OTHER WW WASTE WATER OTHER WHATER	goonoliandogaolioom		NEEDED: YES /ZNO
CONTACT Steve Gridley TRANSPORT		Incoming the pent of the	IF YES, PLEASE ATTACH
CONTACT Steve Gridley TRANSPORT Sw Surface Water HZ HAZARDOUS WW WASTE WATER OTHER		/DW DRINKING WATER SL SLUDGE NYDOH NYDEC PADER	P IS A QC PACKAGE NEEDED?
DE DEIONIZED MIXTED DE DEIONIZED MIXTED DE DECOMAL COLLED	CONTACT Stove Gridley	/ SW SURFACE WATER HZ HAZARDOUS LANDFILL Mostoller	TYES 7 NO
FAX# LABORATORY IN COOLER WITH ICE PO# A F 76 7 35 LABORATORY IN COOLER WITH ICE LABORATORY IN COOLER WITH ICE ACACHTIC ACID SO3, SODIUM SULFITE Thio SODIUM THIOSULFATE NH, AMMONIUM CHLORIDE Thio SODIUM THIOSULFATE NH, AMMONIUM CHLORIDE THIS SODIUM THIOSULFATE NONE PO# A F 76 7 35		TRANSPORT / WW WASTE WATER OTHER	IFYES PLEASE ATTACH REQUIREMENTS
BILL TO: Talisman IN COOLER WITH ICE S SULFURIC ACID AC ACETIC ACID AC ACETIC ACID AC ACETIC ACID N NITRIC ACID SO 3 SODIUM SULFITE Thio SODIUM THIOSULFATE NH4, AMMONIUM CHLORIDE ZN ZINC ACETATE Hg MERCURIC CHLORIDE		LABORATORY / /H HYDROCHLORIC ACID OH SODIUM HYDROXIDE	/ 6
WITH ICE SO 3 SODIUM SULFITE Thio SODIUM THIOSULFATE NONE NONE WITH ICE SO 3 SODIUM SULFITE NH, AMMONIUM CHLORIDE ZN ZINC ACETATE MERCURIC CHLORIDE		IN COOLER S SULFURIC ACID AS ASCORBIC ACID N. NUTRIC ACID AC ACETIC ACID	/ / 🕏 /
PO# A F 76 7 35 Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE SOLUM THIOSULFATE ZN ZINC ACETATE WE MERCURIC CHLORIDE	Talisman	WITH ICE / SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE	/ 5 / E /
	PO# 1 = 76 7 35	Thio Sodium thiosolitate ZN ZINC ACETATE NONE Hg MERCURIC CHLORIDE	<i>\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ </i>
PROJECT DESCRIPTION Q 0 - Please fill out all applicable or an applicable		An incomplete chain of custody may delay the	Please fill out all
PROJECT DESCRIPTION An incomplete chain of custody may delay the pricable areas processing of your sample(s). SAMPERSIGNATURE / AFEILIATION Please fill out all applicable areas completely	DENRESSTOR FOR 5	The processing of your sample(s).	appficable areas
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	Air or Cal Cuttings		
		70	
2 PCBs, Total Solids		interest of the second	
3 A -flows, Jan. G Total Volatile Solids	3 A Theres, Ign.	2.2.4.5.1 (Section 1)	
4 5- Rucfisity C Ammonia-Nitrogen	4 5- Ruchisty	C Ammonia-Nitrogen	
5 b- 7s, τυς C Water Leaching Procedure: COD,	5 D- TS, TUS U	C Water Leaching Procedure: COD,	
6 E- (ata) Sample VVCVV Total Solids, Oil & Grease,	6 E- Total Sample	Total Solids, Oil & Grease,	
7 F-TCLP 8270, Paris.			
8 G-TCLP Hate Sr K- ASIM PLG		-K- Asm sec	
9 H-TCEP PH L-ASTM TS, PH 36 HOUR TURNAROUND			
10 I - ASTA COS, NAS TELP VOIS M-TOX DAY TURNAROUND		Sporting of the second	
11 J- ASTM CODE 1243		1977 1977	
LAB USE ONLY			
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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 spa d sheet as Form 26	curately completed. All requing spaces provided. If additional spaces, reference the item numbers are needs to match the date	pace is necessary, iden per and identify the d	tify Date Rec	EP.USE ONLY eived & General Notes
Genera	al Refei	rence 287.54				
Date P	repared	d/Revised	February 11, 2011			
		SECTION A	A. CLIENT (GENERATO)	R OF THE WASTE) I	NEORMATIO	7
	any <u>N</u> ar					
		ergy USA Inc. y, Name of Parent Co	·mnany			A Generator ID#
		ergy Inc.	onipariy		N/	
		ling Address Line 1	С	ompany Mailing Addre		
		d Place				
		dress Last Line – City		Zip+4	Phone	Ext
Warre		ntact Last Name	PA First Name	15086 M I	(724) 814-	osuu iffix
Brown	-	Ract Last Name	Dina	••••	30	
Munici	pality	******		County		
Warre		<u>.</u>		Allegheny		
	ct Phon		Contact Email Address			
	814-53: waste d		dybrown@talismanusa.c pany Mailing Address (noted		Г	Yes No
			generation and storage. Drill		ے uring natural gas o	
the DC	NR 587	(02-006) well pad site	located at 149 Carey Road, Wa	ard Township, Tioga Coι	ınty, PA. Waste is	stored in containers
on site. Munici		Ward	County Tioga		State	PA
	1		SECTION B. WAST			177
Resid	dual		sidual Waste		Unit of	Time
	uuai	Res	Siduai waste			
Waste			e Description	Amount	Measure	Frame
			e Description	Amount 233	☐ cu yd ☐ ga	al
Waste		Cod	e Description nd gas)	233		al
Waste		Cod Drill cuttings (oil ar	e Description	233	☐ cu yd ☐ ga ☐ lb	al
Waste 810	Code pH Ra	Cod Drill cuttings (oil ar	e Description ad gas) 1. GENERAL P 11.43 to Liquid Waste (EPA Me	233 PROPERTIES (based on analyses or kethod 9095)	☐ cu yd ☐ ga ☐ lb	al
Waste 810 a.	Code pH Ra	Cod Drill cuttings (oil ar	e Description ad gas) 1. GENERAL P 11.43 to Liquid Waste (EPA Me Solid (EPA Method 90	233 PROPERTIES (based on analyses or kethod 9095) 95)	☐ cu yd ☐ ga ☐ lb	al
Waste 810 a. b.	pH Ra Physic	Cod Drill cuttings (oil an nge cal State	1. GENERAL P 1. 1.43 to Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	PROPERTIES: (based on analyses or kethod 9095) 95) ture & pressure)	☐ cu yd ☐ ga ☐ lb ☑ to nowledge)	al n One Time
Waste 810 a.	pH Ra Physic	Cod Drill cuttings (oil ar	1. GENERAL P 1. 1.43 to Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	PROPERTIES: (based on analyses or kethod 9095) 95) ture & pressure)	□ cu yd □ ga □ lb □ to nowledge) or Earthy / Sli	al
Waste 810 a. b.	pH Ra Physic	Cod Drill cuttings (oil an nge cal State	e Description Ind gas) 1: GENERAL P 11.43 to Liquid Waste (EPA Method 90 Solid (EPA Method 90 Gas (ambient temperate of Solid or Liquid Number of Solid or Liquid	233 ROPERTIES (based on analyses or keethod 9095) 95) ture & pressure) Odd Chases of Separation	□ cu yd □ ga □ lb ☑ to nowledge) r Earthy / Slig □ One	al n One Time
Waste 810 a. b.	pH Ra Physic	Cod Drill cuttings (oil an nge cal State	1. GENERAL P 1. 1.43 to Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	233 ROPERTIES (based on analyses or keethod 9095) 95) ture & pressure) Odd Chases of Separation	□ cu yd □ ga □ lb ☑ to nowledge) r Earthy / Slig □ One	al n One Time
Waste 810 a. b. Cc.	pH Ra Physic	Cod Drill cuttings (oil an nge cal State cal Appearance	1. GENERAL P 1. 1.43 to Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	233 ROPERTIES (based on analyses or kethod 9095) 95) sture & pressure) Odc d Phases of Separation separation. Soil and Ro	□ cu yd □ ga □ lb ☑ to nowledge) or □ Earthy / Sli □ □ One ock Fragments	one Time One Time
Waste 810 a. b.	pH Ra Physic	Cod Drill cuttings (oil and	and gas) 1. GENERAL P 11.43 to Liquid Waste (EPA Method 90 Gas (ambient temperate Color Greyish Black Number of Solid or Liquid Describe each phase of semical characterization of the	233 PROPERTIES (based on analyses or kepthod 9095) 95) sture & pressure) Odc d Phases of Separation separation. Soil and Roses waste, as described in	cu yd ga da	one Time One Time
### Waste 810	Physical Phy	Cod Drill cuttings (oil ar nge cal State cal Appearance sults of a detailed chetions, is attached. iled description of th	and gas) 1. GENERAL P 11.43 to Liquid Waste (EPA Method 90 Gas (ambient temperated of Solid or Liquid Describe each phase of semical characterization of the sewaste sampling method is a	233 ROPERTIES (based on analyses or keethod 9095) 95) sture & pressure) Odc d Phases of Separation separation. Soil and Ro sis ATTACHMENTS e waste, as described in	cu yd ga to solonowledge) Pr Earthy / Slig One ock Fragments In the	al
810 a. b. c.	Physical Phy	Drill cuttings (oil ar	1. GENERAL P 11.43 to 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 emical characterization of the te waste sampling method is a ity control procedures employ	233 ROPERTIES (based on analyses or kethod 9095) 95) sture & pressure) Odc d Phases of Separation separation. Soil and Ro sis ATTACHMENTS e waste, as described in	cu yd ga to solonowledge) Pr Earthy / Slig One ock Fragments In the	al
### Waste 810	Physical Phy	Cod Drill cuttings (oil and	and gas) 1. GENERAL P 11.43 to Liquid Waste (EPA Method 90 Gas (ambient temperated of Solid or Liquid Describe each phase of semical characterization of the sewaste sampling method is a	233 PROPERTIES (based on analyses or kethod 9095) 95) Iture & pressure) Odd Phases of Separation reparation. Soil and Ro Sis Attachments waste, as described in attached. yed by the laboratory(inched.	cu yd ga to solonowledge) Pr Earthy / Slig One ock Fragments In the	ght Petroleum Yes No Yes No Yes No

2540-PM-BWM0347 Rev. 1/2011

12		PROCESS DESCRIPTION				
a.	A detailed description of the the waste, as specified in the	instructions, is attache	d.			☐ No
b.	A schematic of the manufact as specified in the instructio		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
c.	If portions of the information a confidentiality claim, as de			on for Yes	No	⊠ N/A
	SECTI	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE		
			DISPOSAL FACILITY(II			112
The a	rea below (ad.) will accommo	date the identification of	two facilities. Attacl	h additional sheets	if necessary	' .
a.	Solid waste permit number(s 8-4630-00010) for processing or dispo	osal facility being uti	lized.		
b.	Facility Name	Hakes C&D Landfill				
1	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	ella.com	
d.	Volume of waste shipped to					
	233	cu yd gal	∐ lb ⊠ tor	(
a.	Solid waste permit number(s) for processing or dispo	osal facility being util	lized.		
b.	Facility Name					
	Address Line 1					
	Address Line 1					
	Address City State ZIP					
	Municipality		County			
c.	Facility Contact Name					
l	Title					***
	Phone		Email Address			
d.	Volume of waste shipped to	processing or disposal for cuyd gal	acility in the previous	-		
		2. Bene	FICIAL USE			•
a.	Has the waste been approved	The terror to the second of the contract of th		· Constitution of the Cons	Yes	⊠ No
	If "Yes", list the general perm		umber.			Terrorial Control of the Control of
b.	Volume of waste beneficially					
	O Č	cu yd gal	☐ lb ☐ tor	n (check one)		

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 Submitted:**

Title

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10041891

10041891

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

PO#:

WO#:

PAGE:

PWS ID#

PHONE: FAX:

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

DCNR58702 Pad 6

RECEIVED FOR LAB BY: DLM2

DATE: 04/14/2010 10:50

TEST REPORT

Page 1 of 1

MPLE: Air Cuttings		Lab ID): 10041891-001A	Compo	site		
SAMPLED BY: SG	San	nple Time	9: 04/12/2010 18:00	01.00			
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analys
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	04/16/10 9:00	04/19/10	KW-C
Sodium	194 mg/Kg		EPA 6010B	105	04/16/10 15:25	04/19/10	RMD-0
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-C
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	10.00	04/21/10 9:10	04/21/10	GSR-C
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-C
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-C
Copper - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-C
Lead - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-C
Nickel - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-C
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-C
Silver - TCLP extracted	< 0.100 mg/L		EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-C
Zinc - TCLP extracted	< 0.200 mg/L		EPA 6010B	0.200	04/21/10 9:10	04/21/10	GSR-C
pН	11.43 @ 20.8 °C		EPA 9045D		04/20/10 13:25	04/20/10	SMH-C
Total Petroleum Hydrocarbons	388 mg/Kg		EPA 9071		04/20/10 8:30	04/20/10	
Chloride	357 mg/Kg	Z	EPA 300.0	50.0	04/16/10 15:01	04/17/10	HDP-C

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; ŠA = Benchmark Analytics, Inc. Sayre, PA
- Z Due to matrix bias, spike recovery was outside acceptance limits

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

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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#:

10124003

PAGE:

1 of 3

PO#:

AF 76748

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR 006-04 Well Pad

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

Page 1 of 3

RECEIVED FOR LAB BT. CWS	DATE.	12/20/2010 13.50			Г	age 1 01 3
SAMPLE: Air Cuttings		ab ID: 10124003-001A	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 11:40	SLOQ			
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	24000 mg/Kg	EPA 9071		12/29/10 15:10	12/29/10	
Sample Note: Analysis performed	d by Microbac Laboratories, In	c-Erie Division.				
SAMPLE: Air Cuttings	L	ab ID: 10124003-001B	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 11:40				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	67.1 %	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 17:10	12/28/10	IC-SA
pH	8.63@19.8°C	EPA 9045C	0.1	12/29/10 11:41	12/29/10	SG-SA
<u> </u>				12/20/10 11.41	12/20/10	
SAMPLE: Air Cuttings		ab ID: 10124003-001C	Grab			
SAMPLED BY: DJD	Sample	Time: 12/28/2010 11:40	SLOQ			
<u>Test</u>	Result	<u>Method</u>	<u> </u>	Analysis Start	Analysis End	Analyst *
Sodium	400 mg/Kg	EPA 6010B	60.1	12/30/10 10:00	01/03/11	GSR-CV
Chloride	237 mg/Kg	EPA 300.0	47.4	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	8.31 @ 19.1°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: 10124003-001E	Grab		***************************************	
SAMPLED BY: DJD	~	Time: 12/29/2010 8:00				
- .	B #	.	<u>SLOQ</u>	A 1 : 0: 1		
Test	Result	Method	0.0008	Analysis Start	Analysis End	
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A		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 Cadmium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00 0.100	12/30/10 9:30 12/30/10 9:30	01/03/11 01/03/11	GSR-CV
Gadmium - TOLP extracted	< 0.100 mg/L	EPA 6010B	0.100	12/30/10 9:30	01/03/11	GSR-CV

REMARKS:

MANAGER	Carri	M. Davis	DATE:	1/12/2011

^{*} 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: 10124003

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#:

10124003

PAGE:

PWS ID#

2 of 3

PO#:

AF 76748

TEST REPORT

PHONE: FAX:

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

DCNR 006-04 Well Pad							
RECEIVED FOR LAB BY: CMS	DAT	E: 12/	28/2010 13:50			Pa	age 2 of 3
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	5.72 mg/L	L	EPA 6010B	0.050	12/30/10 9:30	01/03/11	GSR-CV
Zinc - TCLP extracted	1.84 mg/L		EPA 6010B	0.200	12/30/10 9:30	01/03/11	GSR-CV
SAMPLE: TCLP Leachate of Air Cutting	ngs	Lab I	D: 10124003-001F	Grab			
SAMPLED BY: DJD	Sar	nple Tim	e: 01/06/2011 8:00				
Test	Result		Method	SLOQ	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
SAMPLE: TCLP Leachate of Air Cuttin	nas	Lab II	D: 10124003-001G	Grab			
SAMPLED BY:	•	nple Tim	e: 01/06/2011 8:00				
- .	5			SLOQ	A b b - 04 - 4	A	A l 4 *
<u>Test</u>	Result		Method	0.0050	Analysis Start	Analysis End	Analyst *
Benzene	< 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.

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

Value above calibration range but within annually verified linear range

MANAGER	Can	i M. Davis	,	DATE:	1/12/2011

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10124003

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) 562-4000

(607) 562-4001

Horseheads, NY 14845

WO#:

10124003

PAGE:

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PO#:

PWS ID#

AF 76748

TEST REPORT

DCNR 006-04 Well Pad

RECEIVED FOR LAB BY: CMS

DATE: 12/28/2010 13:50

Page 3 of 3

72.7 20 1 O1 (2) (D 2 1 1 O (1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		2 , 2 0, 2 0, 10, 10, 10				450 3 01 3
Carbon tetrachloride	< 0.0250 mg/L	EPA 8260B	0.0250	01/07/11 9:22	01/07/11	CTM-SA
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

<u>Test</u>

SAMPLED BY: DJD

Total Organic Halides

Sample Time: 12/29/2010 8:00

Lab ID: 10124003-001H

Method

Analysis Start

Analysis End Analyst *

< 5.00 mg/kg SW846/9023 5.00 01/11/11 15:00 01/11/11

Grab

SLOQ

SAMPLE: Air Cuttings SAMPLED BY: DJD Lab ID: 10124003-001I

Grab Sample Time: 12/29/2010 8:00

SLOQ

Test Ignitability

Result Negative AS IS

Result

<u>Method</u> SW846 1030 Analysis Start

Analysis End Analyst *

01/07/11 14:00 01/07/11

Sample Note: Analysis performed by QC Laboratories.

Sample Note: Analysis performed by Analytical Services, Inc.

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. Oarles	DATE:	1/12/2011



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 le each attac	gibly printed in th hed sheet as Fo	e spaces pro rm 26R, refe	completed. All requi vided. If additional sp rence the item numb eeds to match the date	ace is necessary, ide er and identify the	ntify 🖟			ONLY eneral Notes
General Re	ference 287.54	*****						
Date Prepa	red/Revised	Februar	y 11, 2011					
	SECTI	ON A. CL	IENT (GENERATOR	R OF THE WASTE) I	NFO	RMATION		
Company I								
	nergy USA Inc.		and the second s	J*************************************				
	ary, Name of Pare	ent Company						rator ID#
Talisman E	nergy inc. Iailing Address Li	ino 1		ompany Mailing Addr	00011	N/A	<u> </u>	
50 Pennwo	•	iile i	<u> </u>	ompany Maning Addi	ess Lii	ile Z		
	ddress Last Line	– Citv	State	Zip+4		Phone		Ext
Warrendal		,	PA	15086		(724) 814-5	300	
Company (ontact Last Name)	First Name	MI		Suf		
Brown			Dina		***			
Municipalit				County				
Warrendal			ntact Email Address	Allegheny				
Contact Ph (724) 814-			ntact Email Address prown@talismanusa.c	rom				
			ailing Address (noted a			Г	Yes	⊠ No
			ion and storage. Drill o		during i	ــــ natural gas dr		
			at 2283 River Road, Wa					
on site. Municipalit	y Ward		County Tioga			State	PA	
	/ Ward	SE		E DESCRIPTION	J	State	PA	
	y Ward	SE Residual V	CTION B. WAST	E DESCRIPTION	l	State Unit of	PA	Time
Municipalit		CONCURSION CONTRACTOR	CTION B. WAST	E DESCRIPTION			PA	Time Frame
Municipalit Residual		Residual W Code Descr	CTION B. WAST		cu	Unit of Measure		Frame
Municipalit Residual Waste Cod		Residual W Code Descr	CTION B. WAST Vaste iption	Amount 5,590		Unit of Measure		
Residual Waste Cod	Drill cuttings (Residual W Code Descr (oil and gas)	CTION B. WAST Vaste iption 1. GENERAL P	Amount 5,590	cu	Unit of Measure i yd ☐ gal ☑ ton		Frame
Residual Waste Cod 810	Drill cuttings (Residual W Code Descr	CTION B. WAST Vaste iption 1. GENERAL P to 9.20	Amount 5,590 ROPERTIES (based on analyses or	cu	Unit of Measure i yd ☐ gal ☑ ton		Frame
Residual Waste Cod 810	Drill cuttings (Residual W Code Descr (oil and gas)	CTION B. WAST Vaste iption 1. GENERAL P	Amount 5,590 ROPERTIES (based on analyses or thod 9095)	cu	Unit of Measure i yd ☐ gal ☑ ton		Frame
Residual Waste Cod 810	Drill cuttings (Residual W Code Descr (oil and gas)	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95)	cu	Unit of Measure i yd ☐ gal ☑ ton		Frame
Residual Waste Cod 810 a. pH b. Phy	Drill cuttings (Residual W Code Descr (oil and gas) 7.14	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95)	☐ cu	Unit of Measure i yd ☐ gal ☑ ton		Frame One Time
Residual Waste Cod 810 a. pH b. Phy	Drill cuttings (Range sical State	Residual W Code Descr (oil and gas) 7.14	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od	cu lb	Unit of Measure i yd ☐ gal ⊠ ton		Frame One Time
Residual Waste Cod 810 a. pH b. Phy	Drill cuttings (Range sical State	Residual W Code Descr (oil and gas) 7.14 Col Col Nu	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat or Greyish Black	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od I Phases of Separatio	cu lb	Unit of Measure yd ☐ gal		Frame One Time
Residual Waste Cod 810 a. pH b. Phy	Drill cuttings (Range sical State sical Appearance	Residual W Code Descr (oil and gas) 7.14 Col Nui Des	1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 908 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of se	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od I Phases of Separatio eparation. Soil and R	cu lb	Unit of Measure yd ☐ gal		Frame One Time
Residual Waste Cod 810 a. pH b. Phy	Drill cuttings (Range sical State sical Appearance	Residual W Code Descr (oil and gas) 7.14 Col Nui Des	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 900 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of services.	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od I Phases of Separatio eparation. Soil and R	cu cu china cu china cu china cu china cu china cu china cu	Unit of Measure yd ☐ gal ☑ ton edge) Earthy/Sligh One ragments	t Petrol	Frame One Time
Residual Waste Cod 810 a. pH b. Phy c. Phy	Drill cuttings (Range sical State sical Appearance results of a detail	Residual W Code Descr (oil and gas) 7.14 Col Nui Des	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 900 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of so	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od I Phases of Separatio eparation. Soil and R	cu cu china cu china cu china cu china cu china cu china cu	Unit of Measure yd ☐ gal ☑ ton edge) Earthy/Sligh One ragments	t Petrol	One Time eum
Residual Waste Cod 810 a. pH b. Phy c. Phy b. A de inst	Drill cuttings (Range sical State sical Appearance results of a detail ructions, is attach	Residual W Code Descr (oil and gas) 7.14 Col Nui Des	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of second s	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odl Phases of Separatio eparation. Soil and R	cu lb knowled	Unit of Measure yd ☐ gal	t Petrol Yes Yes	eum No
Residual Waste Cod 810 a. pH b. Phy c. Phy a. The inst b. A dec. The	Drill cuttings (Range sical State sical Appearance results of a detail ructions, is attach	Residual W Code Descr (oil and gas) 7.14 Col Nui Des	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 900 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of so	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odl Phases of Separatio eparation. Soil and R	cu lb knowled	Unit of Measure yd ☐ gal	t Petrol Yes Yes	One Time eum
Residual Waste Cod 810 a. pH b. Phy c. Phy c. Phy d. The inst b. A d. C. The atta d. The	Drill cuttings (Range sical State results of a detail ructions, is attachetailed description quality assurance ched. results of the haz	Residual W Code Descr (oil and gas) 7.14 Col Nur Des led chemical led. n of the waste	CTION B. WAST Vaste iption 1. GENERAL P to 9.20 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat or Greyish Black mber of Solid or Liquid scribe each phase of second s	Amount 5,590 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odl Phases of Separatio eparation. Soil and Resident an	cu lb knowled	Unit of Measure yd ☐ gal	t Petrol Yes Yes Yes	eum No

2540-PM-BWM0347 Rev. 1/2011

	3.	PROCESS DESCRIPTION	& SCHEMATIC ATTA	CHMENTS		±150
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des			on for Yes	☐ No	⊠ N/A
	SECTION	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE		
		1. PROCESSING OR I	DISPOSAL FACILITY(II	ES) ·	12	12.5
The a	rea below (ad.) will accommod	late the identification of	two facilities. Attacl	n additional sheets	if necessary	•
a.	Solid waste permit number(s) 9-0232-00003	for processing or dispo	osal facility being util	lized.		
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 3,149	cu yd 📗 gal	☐ lb tor	(check one)	l	
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		·	741
	Address Line 1					
i	Address City State ZIP	Painted Post	NY	14870		
	Municipality	Erwin Twp	County	Steuben	····	
C.	Facility Contact Name	Joseph Boyles		4-		
	Title Phone	(007) 007 0044	Frank Address	11	11	
	Priorie	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com	
d.	Volume of waste shipped to p		acility in the previous	•		<u>-</u> -
	2,011	, •		,		
2	Has the waste been approved		FICIAL USE		□ Vos	□ Na
a.	• •				Yes	⊠ No
b.	If "Yes", list the general perm Volume of waste beneficially					

2540-PM-BWM0347 Rev. 1/2011

		Process Description 8						
a.	A detailed description of the the waste, as specified in the	manufacturing and/or poll instructions, is attached.	ution control proce	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 des			n for	No	⊠ N/A		
	SECTION	ON C. MANAGEME	NT OF RESIDU	AL WASTE				
		1. PROCESSING OR DI	SPOSAL FACILITY(IE	:s)				
The ar	rea below (ad.) will accommod				if necessary	•		
a.	Solid waste permit number(s) 8-0728-00001	for processing or dispos	al facility being util	ized.				
b.	Facility Name	Chemung County Land	fill					
	Address Line 1	1690 Lake Street						
	Address Line 1			1.1000				
	Address City State ZIP	Elmira	NY	14903	***************************************			
	Municipality	Elmira	County	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	cu yd 🔲 gal [☐ lb ton	(check one)				
a.	Solid waste permit number(s) 100361	for processing or dispos	al facility being utili	zed.				
b.	Facility Name	McKean County Landfi	<u> </u>					
	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 p	rocessing or disposal fac	ility in the previous ☐ Ib ton					
	190				···-			
		2. Benefi	CIAL USE			12.2.6		
a.	Has the waste been approved	for beneficial use?			Yes	No No		
a.	Has the waste been approved If "Yes", list the general perm	for beneficial use? it number or approval nur	nber.		Yes	No No		
a. b.	Has the waste been approved	for beneficial use? it number or approval nur	nber.	(check one)	Yes	No No		

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 Submitted:**

Title

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073092

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#:

10073092

PAGE:

1 of 2

PO#:

AF77032

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702 Pad 8

RECEIVED FOR LAB BY: WCB

DATE: 07/20/2010 13:25

TEST REPORT

Page 1 of 2

RECEIVED FOR EAD DT. WCD	DAIL	01/2	20/2010 13.23			1	age 1 01 Z
SAMPLE: Air Cuttings		Lab II	D: 10073092-001A	Compo	osite		
SAMPLED BY: SG	Sam	ple Tim	e: 07/13/2010 19:20	01.00			
Test	Result		Method	SLOQ	Analysis Start	Analysis End	Analyst *
Sodium	< 158 mg/Kg-dry		EPA 6010B	158	07/22/10 7:00	07/22/10	GSR-CV
Chloride	125 mg/Kg-dry		EPA 300.0	56.4	07/21/10 12:33	07/22/10	HDP-CV
MBAS, calculated as LAS, mol wt 342 g/mol	5.2 mg/Kg	N	SM5540C	2.5	07/20/10 8:25	07/20/10	BJW-CV
Percent Moisture	11.4 %		SM2540G		07/21/10 16:00	07/22/10	BJW-CV
SAMPLE: Air Cuttings		Lab II	D: 10073092-001B	Compo	osite		
SAMPLED BY: SG	Sam	ple Time	e: 07/13/2010 19:20				
T4	D#		1 4 - 4lJ	SLOQ	A I :- Ott	Ameliais Food	A b 4 *
<u>Test</u> Moisture	<u>Result</u> 12.2 %		Method Moisture Calc.	0.01	Analysis Start 07/21/10 9:40	Analysis End 07/22/10	
	< 0.1 %		EPA 9095A				NFM-SA
Free Liquid	****			0.1	07/22/10 9:55	07/22/10	IC-SA
pH	9.20@21.7°C		EPA 9045C	0	07/21/10 12:15	07/21/10	NFM-SA
Phosphorus	50 mg/kg-dry	S	EPA 365.3	6	07/22/10 11:00	07/23/10	MED-SA
SAMPLE: Air Cuttings		Lab I[D: 10073092-001C	Compo	site		
SAMPLED BY: SG	Samp	ple Time	e: 07/13/2010 19:20				
Tank	Danult		Madhad	<u>SLOQ</u>	Amelysis Otaut	A	A a l *
Test	Result		Method EPA 9071		Analysis Start 07/22/10 11:10	Analysis End 07/22/10	Analyst *
Total Petroleum Hydrocarbons	75 mg/Kg		EPA 907 I		07/22/10 11:10	07/22/10	
Sample Note: Analysis performe	d by Microbac-Erie						
SAMPLE: TCLP Leachate of Air Co	uttings	Lab II	D: 10073092-001E	Compo	site		
SAMPLED BY: SG	-	ple Time	e: 07/13/2010 19:20				
				SLOQ			
<u>Test</u>	<u>Result</u>		<u>Method</u>		Analysis Start	Analysis End	-
Mercury - TCLP extracted	< 0.0008 mg/L		EPA 7470A	0.0008	07/22/10 9:00	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
- s Spike Recovery outside accepted recovery limits

MANAGER	(4	M Davis	DATE		
MANAGER	any	M. Oakis	DATE	. //2//2010	

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073092

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: 2 of 2

WO#:

PWS ID#

PO#: AF77032

10073092

TEST REPORT

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702 Pad 8

RECEIVED FOR LAB BY: WCB DATE: 07/20/2010 13:25 Page 2 of 2

ECEIVED 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

REMARKS:

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Parameter is not NELAC certified Ν
- s Spike Recovery outside accepted recovery limits

	//		
MANAGER	Carrie M. Davis	DATE:	7/27/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10083665

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#:

10083665

PAGE:

1 of 1

PO#:

AF77032

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702-Pad 8

RECEIVED FOR LAB BY: DLM2

DATE: 08/20/2010 11:51

TEST REPORT

Page 1 of 1

SAMPLE: Inv Cuttings		ab ID: 10083665-001A	Compo	site .		
SAMPLED BY: SG	Sample	Time: 08/19/2010 15:30	81.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Moisture	28.0 %	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 15:30	08/23/10	IC-SA
pH	7.14@20.9°C	EPA 9045C		08/23/10 16:12	08/23/10	MED-SA
SAMPLE: Inv Cuttings	L	ab ID: 10083665-001B	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/19/2010 15:30	•			
	-		<u>SLOQ</u>			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	63200 mg/Kg	EPA 9071	170	08/23/10 11:15	08/23/10	
Sample Note: Analysis performed	by Microbac -Erie					
SAMPLE: TCLP Leachate of Inv Cut	ttings L	ab ID: 10083665-001D	Compo	site		
SAMPLED BY: SG	Sample	Time: 08/21/2010 9:00				
			SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	8000.0	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	< 0.100 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	0.275 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	0.138 mg/L	EPA 6010B	0.100	08/24/10 10:50	08/24/10	RMD-CV
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
Zinc - TCLP extracted	7.19 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

MANAGER	Carrie M. Davis	DATE:	8/25/2010
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Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110478

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

SEND DATA TO:

NAME: Steve Gridley

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

Horseheads, NY 14845

WO#:

10110478

PAGE:

1 of 1

AF 77032

PO#:

PHONE: FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

DCNR 58702 Pad 8 CU

RECEIVED FOR LAB BY: RML

DATE: 11/03/2010 12:36

Page 1 of 1

SAMPLE: Clean Soil	L	ab ID: 10110478-001A	Compo	site		
SAMPLED BY: SG	Sample	Time: 11/03/2010 10:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Benzene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
Toluene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
Ethylbenzene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
MTBE	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
Cumene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
1,3,5-Trimethylbenzene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
1,2,4-Trimethylbenzene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-CV
Naphthalene	< 0.040 mg/Kg	EPA 8260B	0.040	11/04/10 9:02	11/04/10	DN-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:	MANAGER	Carry	M. Davis	DATE:	11/5/2010
---	---------	-------	----------	-------	-----------

CHAIN OF CUSTODY	B€		
Talisman / UEG	²⁵⁶⁶ Per W/O#: 1 0	1110478 A	E SPECIAL DETECTION
geowetlands@aol.com	44/0#. 10	NEI	EDED: YES / ZNC
twollin@rallysolutions.ca	EFRIGERATE SAMPLES	RESULTS ARE BEING USED FOR: IFY	'ES, PLEASE ATTACH
	PTER COLLECTION DW DRINKING WATER SL SLUDGE	NYDOH NYDEC PADEP	IS A QC PACKAGE N
CONTACT Steve Gridley	GW GROUNDWATER SO SOIL SW SURFACE WATER HZ HAZARDOUS	LANDFILL	YES NO
PH# 607-731-0145	TRANSPORT / WW WASTE WATER OTHER TO DE DEIONIZED WATER DI DISTILLED WATER	TER PERSONAL OTHER IFY	YES PLEASE ATTACH RE
FAX#	LABORATORY / H HYDROCHLORIC ACID OH	SODIUM HYDROXIDE	151
BILL TO: Talisman	IN COOLER S SULFURIC ACID AS WITH ICE N N NITRIC ACID AC	ASCORBIC ACID ACETIC ACID	/§/
	SO3 SODIUM SULFITE NH. Thio SODIUM THIOSULFATE ZN	AMMONIUM CHLORIDE ZINC ACETATE	3
PO# 1 F 7703 2	$\left \left\langle \mathcal{S} \right\rangle \right \left\langle \mathcal{S} \right\rangle \left\langle \mathcal{S} \right\rangle = \frac{1}{2} 1$	MERCURIC CHLORIDE	§ / Name of the
PROJECT DESCRIPTION Bod 8 CU	LABORATORY IN COOLER WITH ICE WITH		Please fill applicable
SAMPLER SIGNATURE / AFFILIATION	A A A A A A A A A A A A A A A A A A A	sample(s).	comple
CONTAINER SAMPLING POINT	ANALYSIS TO BE PERFOR	MED S	LAD HOT ON
1 Diesel Control			001A
2	Cumene, Napthalene, MTBE		
3	1,2,4 - Trimethylbenzene		
4	1,3,5 - Trimethylbenzene		
5			
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RELINQUISHED BY:	DATE: TIME: RECEIVED BY	Parts 9	F 310

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110481

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

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WO#:

10110481

PAGE:

1 of 1

PO#:

AF 77032

PWS ID#

PHONE: FAX:

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

DCNR58702 Pad 8 cu

RECEIVED FOR LAB BY: RML

DATE: 11/03/2010 12:36

Page 1 of 1

THE COLUMN TO THE COLUMN TWO THE COL		11/00/2010 12:00			Z &	60 1 01 1
SAMPLE: Invert	-	ab ID: 10110481-001A	Grab			
SAMPLED BY: SG	Sample	Time: 11/03/2010 10:00	SLOQ	-		
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	< 128 mg/Kg	EPA 9071	128	11/04/10 14:30	11/04/10	
Sample Note: Analysis performed b	y Microbac Laboratories, Ir	nc-Erie Division.				
SAMPLE: Invert	L	ab ID: 10110481-001B	Grab			
SAMPLED BY: SG	Sample	Time: 11/03/2010 10:00	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	6.53 %	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 14:35	11/03/10	IC-SA
На	8.41@23.6°C	EPA 9045C		11/04/10 15:32	11/04/10	SG-SA
SAMPLE: TCLP Leachate of Invert	·	ab ID: 10110481-001D	Grab			
SAMPLED BY: SG	Sample	Time: 11/04/2010 7:30				
Tool	Popult	Mothad	SLOQ	Analysis Start	Analysis End	Analyst *
Test Mercury - TCLP extracted	<u>Result</u> < 0.0008 mg/L	Method EPA 7470A	0.0008	Analysis Start 11/04/10 13:15	11/04/10	Analyst * RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/04/10 13:15	11/04/10	RMD-CV
Barlum - 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
And - TOLP extracted	~ 0.200 mg/L	EI A 0010B	0.200	טטיבו טו אבטנו ו	11707770	I VIVID-OV

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:	11/5/2010
	4000 VI. D. V.		_	

CONTACT Steve Gridley
AFTER COLLECTION AFTER COLLECTION AFTER COLLECTION DW DRINKINGWATER SL SILUDGE SOIL ANALYSIS WASTE WATER OTHER TRANSPORT TO LABORATORY IN COOLER WITH ICE POW A + 77032 PROJECT DESCRIPTION CONTAINER SAMPLING POINT ANALYSIS TO BE PERFORMED (PER CONTAINER) ANALYSIS TO BE PERFORMED (PERFORMED (PERFORM
CONTACT Steve Gridley TRANSPORT TO LABORATORY IN COOLER WITH ICE POH A TOO 3 2 PROJECT DESCRIPTION BY STORY SAMPLING POINT CONTAINER SAMPLING POINT I IN CONTAINER SAMPLING POINT TO LABORATORY IN COOLER WITH ICE SWY WASTE WATER OF THER THE HAZARDOUS SUFFICIENCE WATER HZ HZ HAZARDOUS SUFFICIENCE WATER HZ HZARDOUS SUFFICIENCE WATER HZ HZ HAZARDOUS SUFFICIENCE WATER HZ HZARDOUS SUFFICIENCE WATER HZ HZ HZARDOUS SUFFICIENCE WATER HZ HZARDOUS SUFFICIENCE HZ HAZARDOUS SUFFICIENCE HZ HAZARDOUS SUFFICIENCE HZ HAZARDOUS SUFFICIENCE HT HYDROCHLORIC ACID AS ASCORBIC ACID HA H HYDROCHLORIC ACID AS ASCORBIC ACID HA HYDROCHLORIC ACID AS ASCORBIC ACID HA HYDROCHLORIC ACID AS ASCORBIC ACID HA HYDROCHLORIC ACID AS ASCORBIC HZ HA HZ
PHW 607-731-0145 TO LABORATORY IN COOLER WITH ICE BILL TO: Tallisman POW AF 7703 2 PROJECT DESCRIPTION SAMPLER MIGNATURE 7 AFFILIATION SAMPLER MIGNATURE 7 AFFILIATION CONTAINER SAMPLING POINT INCOLER WITH ICE DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER IFYES, PLEASI WITH ICE WITH ICE DE DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER IFYES, PLEASI WITH PROCHLORIC ACID OH AS ASCORBIC ACID OH A
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1 Invalidings
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Free Liquids / % Moisture TCLP 8260 / 8270 ONLY IF the TPH exceeds 120,000 mg/Kg
5
6 TCLP 8260 / 8270 ONLY IF the TPH 7 exceeds 120,000 mg/Kg 8
7 exceeds 120,000 mg/Kg
8
9 24 HOUR TURNAROUND 10 DAY TURNAROUND
TEMPERATURE UPON RECEIPT CONTROLLER
RELINGUISTED BY: DATE: 11 3 1/0 TIME: 12 36 RECEIVED BY: DATE: 1
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LAB ID # 11216 LAB ID# 11827

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10110494

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

10110494

PO#:

WO#:

PWS ID#

PHONE: FAX:

(607) 731-0145

(607) 562-4001

DCNR58702 Pad 8 CU

RECEIVED FOR LAB BY: SCP

DATE: 11/03/2010 13:27

Lab ID: 10110494-001A Grab

Sample Time: 11/03/2010 10:00

SLOQ

Test Oll & Grease

SAMPLED BY: SG

SAMPLE: Pad Soil

Result < 110 mg/Kg Method EPA 9071

Analysis Start 110 11/04/10 14:30 Analysis End Analyst * 11/04/10

Page 1 of 1

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

DATE: **MANAGER**

CHAIN OF CUSTODY									PAGE 1	_OF1
REPORT TO: Talisman / UEG										
geowetlands@aol.com						M	V/O#: 10110494		ARE SPECIAL DETEC	
twellin@rallysolutions.ca	DEE	וופבס	ATE S/	A N.A		¥			NEEDED: YES /	
The state of the s			LLECT		}	/ov	RESULTS ARE BEIN O DRINKING WATER SL SLUDGE NYDOH NYD	G USED FOR: [7] EC PADEP	IFYES, PLEASE ATTA	''
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CONTACT Steve Gridley	ו	RANS	PORT			/ SI W	W WASTE WATER OTHER	•	YES	
PH# 607-731-0145 FAX#	١,)Ţ ADOBA	o Atory	,	$ \cdot /$	DI	DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHE	R	IFYES, PLEASE ATTA	CH REQUIREMENTS
BILL TO: Talisman		IN CO	OLER		X	18	S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID]		
BILL FOI TRIISMAN		WITH	ICE	/		/ § /	N NITRIC ACID AC ACETIC ACID SO, SODIUM SULFITE NH, AMMONIUM CHLORIDE		5/3/	•
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PROJECT DESCRIPTION Pool 8 CU		/8	SAMPLING SAMPLING	SALLENATRIK	14	PRE- INITIAL COMPOSITE	An incomplete chain of custody may delay the	Some Sittle of the Control of the Co	Plea appl	ise fill out all icable areas
SAMPLER SIGNATURE / AFFILIATION	/	(dy /	\[\frac{1}{25} \]	18 /	£/	/ § / § /	processing of your sample(s).		\$ C	ompletely
CONTAINER SAMPLING POINT	/ / ½	TIME SAMPLED					An incomplete chain of custody may delay the processing of your sample(s). ANALYSIS TO BE PERFORMED (PER CONTAINER)		7/	
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2 rad soil	1//3	1000	80	<u>C</u>	\$6-	1	pH, Chleridos, Sedium		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3	<u> </u>		L		<u> </u>		valinity 0,1+Grease	9. C		601A
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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

each attach	ibly printed in t ed sheet as F	the spaces prov form 26R, refer	ided. If additional s	pace is necessary, ide ber and identify the	ntify Da		d & General Notes
General Refe	erence 287.54						
Date Prepare	ed/Revised	February	11, 2011				
	DOMESTIC PROPERTY OF STREET, S	TION A. CLI	ENT (GENERATO	R OF THE WASTE) I	NEORMA	TION	
Company Na		•					
	nergy USA Inc.						
	ry, Name of Pa	rent Company					Generator ID#
Talisman Er	nergy inc. ailing Address	Line 4		Commons Mailing Adds	!:2	N/A	
50 Pennwoo	•	Line 1		Company Mailing Addr	ess Line 2		
	Idress Last Lin	o City	State	7in+1	Phone		Ext
Warrendale	idiess Last Liii	ie – City	PA	Zip+4 15086		, 814-530	
	ntact Last Nan	ne	First Name	MI	(124)	Suffix	
Brown	made East Han		Dina	****		Guilla	•
Municipality				County		******	
Warrendale				Allegheny			
Contact Pho			tact Email Address				
(724) 814-53			rown@talismanusa				
			iling Address (noted				Yes 🛛 No
				cuttings are generated of			
	7 (02-009) well	pad site located a	at 2499 River Road, V	Vard Township, Tioga Co	ounty, PA. W	aste is st	ored in containers
on site.							
Municipality	Ward		County Tions	a	St	ate	PA
Municipality	Ward	SE	County Tioga			ate	PA
	Ward		ETION B. WAS	a TE DESCRIPTION			
Municipality Residual Waste Code	Ward	SE(Residual W Code Descri	ETION B. WAS			of	Time Frame
Residual Waste Code		Residual W Code Descri	ETION B. WAS	TE DESCRIPTION Amount	Unit d Measu □ cu yd	of .ire □ gal	Time Frame
Residual Waste Code 810		Residual W	ETION B. WAS aste ption	Amount 6,281	Unit o	of ure	Time
Residual Waste Code 810	Drill cuttings	Residual Wa Code Descri s (oil and gas)	TION B. WAS aste ption 1. GENERAL	Amount 6,281 PROPERTIES	Unit of Measure curve up to the curve up to th	of .ire □ gal	Time Frame
Residual Waste Code 810	Drill cuttings	Residual Wa Code Descri s (oil and gas) 8.97	TION B. WAS aste ption 1. GENERAL to	Amount 6,281 PROPERTIES (based on analyses or	Unit of Measure curve up to the curve up to th	of .ire □ gal	Time Frame
Residual Waste Code 810	Drill cuttings	Residual Ward Code Description (oil and gas)	TION B. WAS aste ption 1. GENERAL to Liquid Waste (EPA M	Amount 6,281 PROPERTIES (based on analyses or lethod 9095)	Unit of Measure curve up to the curve up to th	of .ire □ gal	Time Frame
Residual Waste Code 810	Drill cuttings	Residual Wicode Description (oil and gas)	1. GENERAL to Liquid Waste (EPA M Solid (EPA Method 9	Amount 6,281 PROPERTIES (based on analyses or lethod 9095) 095)	Unit of Measure curve up to the curve up to th	of .ire □ gal	Time Frame
Residual Waste Code 810 a. pH Rabb. Physi	Drill cuttings ange ical State	Residual Wicode Descri	1. GENERAL to Liquid Waste (EPA M Solid (EPA Method 9 Gas (ambient temper	Amount 6,281 PROPERTIES (based on analyses or lethod 9095) 095) rature & pressure)	Unit of Measure of the Measure of th	of ure gal oton	Time Frame One Time
Residual Waste Code 810 a. pH Rabb. Physi	Drill cuttings	Residual Windows (Code Description of Code Des	1. GENERAL to Liquid Waste (EPA M Solid (EPA Method 9 Gas (ambient temper or Greyish Blace	Amount 6,281 PROPERTIES (based on analyses or lethod 9095) 095) rature & pressure) k Od	Unit of Measure or Earthy	of ure gal oton	Time Frame
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Residual Waste Code 810 a. pH Rabb. Physi	Drill cuttings ange ical State	Residual Windows (oil and gas) 8.97 8.97 Code Descri	1. GENERAL to Liquid Waste (EPA M Solid (EPA Method 9 Gas (ambient temper or Greyish Blac ther of Solid or Liquid	Amount 6,281 PROPERTIES (based on analyses or lethod 9095) 095) rature & pressure) k Od	Unit (Measure of Larth) knowledge) or Earthy One	of ure ☐ gal ☑ ton	Time Frame One Time
Residual Waste Code 810 a. pH Rabb. Physi	Drill cuttings ange ical State	Residual Windows (oil and gas) 8.97 8.97 Code Description (oil and gas)	1. GENERAL to Liquid Waste (EPA M Solid (EPA Method 9 Gas (ambient temper or _Greyish Blace ther of Solid or Liquicribe each phase of	Amount 6,281 PROPERTIES (based on analyses or dethod 9095) 095) ature & pressure) k Od id Phases of Separatio separation. Soil and R	Unit (Measure of Larth) knowledge) or Earthy One	of ure ☐ gal ☑ ton	Time Frame One Time
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2540-PM-BWM0347 Rev. 1/2011

3. Process Description & Schematic Attachments											
a.	A detailed description of the the waste, as specified in the			esses producing	⊠ Yes	No					
b.	A schematic of the manufacture as specified in the instruction		ntrol 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.										
SECTION C. MANAGEMENT OF RESIDUAL WASTE											
7.2		1. PROCESSING OR D	- And Carolin (Control of Control		-27						
The a	rea below (ad.) will accommod				if necessary.	and the second s					
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	sella.com						
d.	Volume of waste shipped to processing or disposal facility in the previous year. 3,067										
а.	Solid waste permit number(s) 8-4630-00010	for processing or dispo	sal facility being utili	ized.							
b.	Facility Name	Hakes C&D Landfill									
	Address Line 1	4376 Manning Ridge I	Road								
	Address Line 1										
	Address City State ZIP	Painted Post	NY	14870							
	Municipality	Erwin Twp	County	Steuben							
C.	Facility Contact Name	Joseph Boyles									
	Title	(007) 007 0044	Faril Adda								
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com						
d.	Volume of waste shipped to p		cility in the previous	vear							
	2,042	cu yd gal	☐ lb 🛛 ton								
			FICIAL USE								
a.	Has the waste been approved for beneficial use? ☐ Yes ☒ No										
	If "Yes", list the general permit number or approval number. Volume of waste beneficially used in the previous year.										
b.	Valuma afiyaata banafisiallii	read in the provious was	r								
	0	cu yd gal	☐ lb ☐ ton	(check one)							

2540-PM-BWM0347 Rev. 1/2011

470 A. 65	3.	PROCESS DESCRIPTION & S	CHEMATIC ATTACHM	MENTS							
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			or	☐ No	⊠ N/A					
SECTION C. MANAGEMENT OF RESIDUAL WASTE											
63 200		1. PROCESSING OR DISP	OSAL FACILITY(IES)								
The ar	ea below (ad.) will accommod	late the identification of two	facilities. Attach ad	dditional sheets i	f necessary.						
а.	Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004										
b.	Facility Name	Chemung County Landfill									
1	Address Line 1	1690 Lake Street									
	Address Line 1										
<u> </u>	Address City State ZIP	Elmira	NY NY	14903							
	Municipality	Elmira	County C	Chemung							
c.	Facility Contact Name	Carla Canjar									
	Title	Environmental Manager									
	Phone	(585) 797-5941 E	mail Address C	arla.canjar@cas	ella.com						
d.	Volume of waste shipped to p 1,034	cuyd gal	lb 🛛 ton	(check one)							
a.	Solid waste permit number(s) 100361	for processing or disposal	facility being utilize	d.							
b.	Facility Name	McKean County Landfill									
	Address Line 1	19 Ness Lane									
	Address Line 1				J.,						
	Address City State ZIP	Kane	PA	16735							
	Municipality	Sergeant Twp	County N	/lcKean							
C.	Facility Contact Name	Mike Manderfeld									
	Title										
	Phone	(814) 778-9931 E	mail Address m	nanderfeld@gma	ail.com						
d.	Volume of waste shipped to p 138	rocessing or disposal facilit cu yd gal	y in the previous ye lb 🔀 ton	check one)							
	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.										
	0	cu yd gal	lb ∐ ton	(check one)							

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 Submitted:**

Title

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040650

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#:

10040650

PAGE:

1 of 3

PO#:

Ensign 123

PWS ID#

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

DCNR 58702-009-01

RECEIVED FOR LAB BY: WCB

DATE: 04/06/2010 8:45

TEST REPORT

Page 1 of 3

RECEIVED FOR CAB BT. WOB	DATE.	0 11 C G 12 C T C G 1 T C				age 1 Of 5
SAMPLE: In Cuttings - Bin SAMPLED BY: DB		ab ID: 10040650-001A Time: 04/05/2010 18:00	Grab			
SAMI ELD D1. DD	Campie	11116. 04/00/2010 10:00	Reg			
<u>Test</u>	Result	Method	Limit	Analysis Start	Analysis End	Analyst *
рН	8.97 @ 22.6°C	EPA 9045D		04/07/10 11:55	04/07/10	NC-CV
Total Petroleum Hydrocarbons	49000 mg/Kg	EPA 1664A		04/07/10 12:40	04/07/10	DTG-CV
SAMPLE: In Cuttings - Bin	L	ab ID: 10040650-001B	Grab			
SAMPLED BY: DB	Sample	Time: 04/05/2010 18:00				
Test	Result	Method	<u>Reg</u> Limit	Analysis Start	Analysis End	Analyst *
% Solids	71.82 % Wght.	SM2540B		04/06/10 14:30	04/07/10	NFM-SA
SAMPLE: TCLP Leachate of In Cuttir	nas - Bin	ab ID: 10040650-001D	Grab	AND		
SAMPLED BY: DB	-	Time: 04/07/2010 6:45				
			Reg			
<u>Test</u>	Result	<u>Method</u>	<u>Limit</u>	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	1.02 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	12.0 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
- Spike Recovery outside accepted recovery limits

	(1) I was Travel	DATE:	4/8/2010
MANAGER	Carri M. Oakis	DATE	4/0/2010

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040650

10040650

Ensign 123

2 of 3

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

SEND DATA TO:

NAME: Steve Gridley

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

PAGE:

Horseheads, NY 14845

TEST REPORT PWS ID#

WO#:

PO#:

PHONE: (607) 731-0145

FAX: (607) 562-4001

DCNR 58702-009-01

RECEIVED FOR LAB BY: WCB DATE: 04/06/2010 8:45 Page 2 of 3

SAMPLE: TCLP Leachate of In Cuttings	- Rin	Lab ID:	10040650-001E	Grab			
SAMPLED BY: DB			04/07/2010 6:45	0.00			
	_			Reg			
<u>Test</u>	Result		Method	<u>Limit</u>	Analysis Start	Analysis End	
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-\$A
SAMPLE: ZHE Extract of In Cuttings - Bi	n	Lab ID:	10040650-001F	Grab	11.11		
SAMPLED BY: DB	S	ample Time: 0	4/07/2010 6:45				
Test	Result		Method	<u>Rea</u> Limit	Analysis Start	Analysis End	Amalumi *
Benzene - TCLP extracted	< 0.100 mg/L		EPA 8260B	0.5	04/07/10 14:19	Analysis End 04/08/10	Analyst * DN-CV
Carbon tetrachloride - TCLP	< 0.100 mg/L		EPA 8260B	0.5	04/07/10 14:19	04/08/10	
extracted	< 0.100 mg/L		EFA 0200B	0.5	04/07/10 14:19	04/06/10	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. Davis	DATE: 4/8/20	10
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10040650

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

Sample Note: Limit of detection increased due to sample foaming

WO#:

10040650

PAGE:

3 of 3

PO#:

Ensign 123

PHONE:

(607) 731-0145

TEST REPORT

PWS ID#

FAX:

(607) 562-4001

DCNR 58702-009-01

20.11.00.02.00.01						
RECEIVED 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 Carri M. Davis	DATE:	4/8/2010	
------------------------	-------	----------	--

CHAIN OF CUSTODY		Benchmar	k Analytics, Inc.		PAGEO	F
REPORT TO:]		ern Division			
REPORT TO: FORTUMA			Avenue • Sayre, PA 1884	0	ARE SPECIAL DETECTION	ON LIMITS
Talisman Energy USA			(570) 888-0169			1
Tottlett all a lagy both	1	Fax: (5	i70) 888-0717		NEEDED: YES /	NU :
	REFRIGERATE SAMPLES			RESULTS ARE BEING USED FOR:	IFYES, PLEASE ATTACH	
	AFTER COLLECTION	DV	or GIIDGE	NYDOH NYDEC PADEP	IS A QC PACKAGE	NEEDED?
CONTACTO	1	GI SI		_	YES	NO
CONTACTS HEVE Gridley	TRANSPORT	/ W				
PH# 607-731-0145	TO	/	Man.		IF YES, PLEASE ATTACH	REQUIREMENTS
FAX#	LABORATORY /	/	V/O#: 10040	3650 31D#		
BILL TO: Fortuna	WITH ICE	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ation		
AFE: notavailable		SO ₃ Thio			12 14 1	
PO# Ensign 123	1 / / /	9 -		C ACETATE Sample Point_ RCURIC CHLORIDE		
PRO JECT DESCRIPTION	- /	Shaper Figure 1 Shaper 1 Shape	1		- Ta T	A Please fill
PROJECT DESCRIPTION DCNR 58103-009-01	SAMPLE OF SAMPLES	Shaper Sh	An incomplete chain of		NO DESCRIPTION OF THE PROPERTY	out all
SAMPLER SIGNATURE / AFFILIATION		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	processing of y	our sampie(s).	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	applicable areas
lurmen Hrey	- \kappa_{\k		ANALYSIS TO BE P	EDECADUEN .		completely.
Container Sample Point No./Type	SAMPLE TYPE	Share ER MITALS COMPOS PRESENTATIVE Choine Resolval Tree Tree	(PER CONTA		\@\\&\	LAB USE ONLY
	41410 Q.00 50 C	N		Autole C 12	11 cm (150 cm) (150 cm)	∞17)
1 In Cuttings-Bin	MILLE DO C		. 1	Metals, C. N.	<u> </u>	W (1)
2	 		TCU, N	24		
3			TPH			601 A
4			PH			+A
5 OOLC - Total Sumple			% Solids			001 B
6			TCLP 8260	- 8270 * Du:	AND DESCRIPTION OF PERSONS ASSESSMENT AND PERSONS ASSESSMENT ASSES	OOLE,F
7			(F)	(E)		
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			LZIII NUO	1.7		
9		_				
10				1_1		
11			Due: 4	17/10		
LAB USE CHLY OBLIVERED BY	Citral		TEMPEDATTIPE	UPON RECEIPT 15	第三次的1000年的1000年中的1000年。	ON ICE Y/6D
			LINGERALUNE			
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RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:		DATE:	TIME:
	1 / /				1 1	
RELINQUISHED BY: Oney / PK	3C PUTE: (6/11)	TIME: 8:459	RECEIVED BY SEDDLE Y	MC C . I	PATE: 16/10	TIME: 845
Carmer Carent L	<u> </u>	1 0.737	BROWG	11- Carry		aphics Printing 570-888-0665



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 each at	r legib ttache	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	tify Date	DEP.U: Received		neral Notes
General	l Refer	rence 287.54		***************************************				
Date Pre	epared	d/ Revised Fe	bruary 11, 2011					
		SECTION A.	CLIENT (GENERATOR	OF THE WASTE) II	VEORMAT	ION		
Compar								
		ergy USA Inc.	AT 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1					
		y, Name of Parent Comp ergy Inc.	pany				enera	ator ID#
		ling Address Line 1	C	ompany Mailing Addre	ss Line 2	N/A		
50 Penr			•	ompany maning Addre	.oo Liiic L			
Compan	ny Add	ress Last Line – City	State	Zip+4	Phone			Ext
Warren			PA	15086	(724) 8	14-5300)	
	ny Con	ntact Last Name	First Name	MI		Suffix		
Brown Municip	ality		Dina	County				
Warren				Allegheny				
Contact		e Ext	Contact Email Address	grioriy				
(724) 81			dybrown@talismanusa.c					
			ny Mailing Address (noted a				'es	⊠ No
If 'No', d	describ	be location of waste ger	neration and storage. Drill o	cuttings are generated d	uring natural g	as drillin	g ope	rations at
	IK 587	(02-013) well pad site lo	cated at 349 Carey Road, Wa	ard Township, Hoga Coi	unty, PA. Was	ite is stor	red in	containers
l on site								
on site. Municipa	ality	Ward	County Tioga		Stat		PA	
*	ality	Ward		E DESCRIPTION	Stat		PA	
Municipa Residu	ual		County Tioga SECTION B. WAST ual Waste	E DESCRIPTION	Stat Unit of	e	PA	Time
Municipa	ual	Resid	SECTION B. WAST	E DESCRIPTION Amount	Unit of Measure	e e	PA	Time Frame
Municipa Residu	ual	Resid	SECTION B. WAST ual Waste Description		Unit of Measure	e gal	PA	Frame
Municipa Residu Waste C	ual	Resid Code D	SECTION B. WAST ual Waste Description gas)	Amount 4,587	Unit of Measure	e e	PA	
Residu Waste C	ual Code	Resid Code D Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P	Amount 4,587 ROPERTIES	Unit of Measure cu yd Lib	e gal	PA	Frame
Residu Waste C 810	ual Code pH Ra	Resid Code D Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P	Amount 4,587 ROPERTIES (based on analyses or B	Unit of Measure cu yd Lib	e gal	PA	Frame
Residu Waste C 810	ual Code pH Ra	Resid Code D Drill cuttings (oil and one	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 Liquid Waste (EPA Me Solid (EPA Method 909	Amount 4,587 ROPERTIES (based on analyses or bethod 9095) 95)	Unit of Measure cu yd Lib	e gal	PA	Frame
Residu Waste C 810	ual Code pH Rai	Resid Code D Drill cuttings (oil and some nge 7.9	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1 to 7.95 Liquid Waste (EPA Me	Amount 4,587 ROPERTIES (based on analyses or bethod 9095) 95)	Unit of Measure cu yd Lib	e gal	PA	Frame
Residu Waste C 810	ual Code pH Rai	Resid Code D Drill cuttings (oil and one	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. To 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black	Amount 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd	Unit of Measure cu yd lb knowledge)	e e] gal ⊴ ton		One Time
Residu Waste C 810	ual Code pH Rai	Resid Code D Drill cuttings (oil and some nge 7.9	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid	Amount 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Phases of Separation	Unit of Measure Cu yd Ib Conowledge) Pr Earthy/Son One	e gal ⊈ton		One Time
Residu Waste C 810	ual Code pH Rai	Resid Code D Drill cuttings (oil and some nge 7.9	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. To 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black	Amount 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Phases of Separation	Unit of Measure Cu yd Ib Conowledge) Pr Earthy/Son One	e gal ⊈ton		One Time
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Residu Waste C 810 a. p. b. F	ual Code pH Rai Physic Physic	Resid Code D Drill cuttings (oil and genge 7.9 cal State cal Appearance sults of a detailed chemications, is attached.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 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 4,587 ROPERTIES (based on analyses or lethod 9095) (b5) (ture & pressure) Odd I Phases of Separation eparation. Soil and Ro (sis Attachments) waste, as described in	Unit of Measure Cu yd Ib Ib In Measure Cu yd In Measure	e gal de		One Time
Residu Waste C 810 a. p b. F	ual Code PH Rai Physic Physic The reinstruc A deta	Resid Code D Drill cuttings (oil and genge 7.9 cal State cal Appearance sults of a detailed chemotions, is attached. iled description of the w	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS nical characterization of the waste sampling method is a	Amount 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro is ATTACHMENTS waste, as described intached.	Unit of Measure Cu yd Dib Conowledge) Pr Earthy/Son One Dock Fragment	gal Slight Pets	etrole 'es	One Time
Residu Waste C 810 a. p. b. F a. ii b. A c. 1	pH Rai Physic Physic The re- instruc A deta The qu	Resid Code D Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemotions, is attached, iled description of the g nality assurance/quality	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 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 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro is ATTACHMENTS waste, as described intached.	Unit of Measure Cu yd Dib Conowledge) Pr Earthy/Son One Dock Fragment	gal Slight Pets	etrole	One Time Bum No
Residu Waste C 810 a. p.	ual Code PH Rai Physic Physic The rei instruc A deta The quattache	Resid Code D Drill cuttings (oil and genge 7.9 cal State cal Appearance sults of a detailed chemotions, is attached. iled description of the generality assurance/quality ed.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS nical characterization of the waste sampling method is a control procedures employ	Amount 4,587 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd I Phases of Separation eparation. Soil and Ro waste, as described intached. yed by the laboratory(in	Unit of Measure Cu yd Dib Conowledge) Pr Earthy/Son One Dock Fragment	Blight Pe	etrole 'es 'es 'es	One Time One No No No
Residu Waste C 810 a. p. b. F c. f b. f c. 1 a. d. 1	pH Rai Physic Physic The re- instruc A deta The quattache	Resid Code D Drill cuttings (oil and g nge 7.9 cal State cal Appearance sults of a detailed chemotions, is attached, iled description of the g lality assurance/quality ed, sults of the hazardous of	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 1. to 7.95 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS nical characterization of the waste sampling method is a	Amount 4,587 ROPERTIES (based on analyses or letthod 9095) (bit of a pressure) Odd Phases of Separation eparation. Soil and Rose waste, as described intached. (red by the laboratory(inched.	Unit of Measure Cu yd Dib Conowledge) Pr Earthy/Son One Dock Fragment	Slight Petts Y	etrole 'es	One Time Pum No No

sala s Lijvi		PROCESS DESCRIPTION		Charles to the contract of the					
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 des	submitted are confiden cribed in the instructio	tial, the substantiations, is attached.	n for Yes	No	⊠ N/A			
	SECTIO	ON C. MANAGEM	ENT OF RESIDU	JAL WASTE					
		1. PROCESSING OR	DISPOSAL FACILITY(IE	S).					
The ar	ea below (ad.) will accommod	ate the identification of	two facilities. Attach	additional sheets	if necessary	-			
a.	Solid waste permit number(s) 9-0232-00003	for processing or disp	osal facility being util	ized.					
b.	Facility Name	Hyland Landfill							
]	Address Line 1	6653 Herdman Road	<u> </u>			W			
	Address Line 1								
	Address City State ZIP	Angelica	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 p 2,657	cu yd gal	☐ lb 🔀 ton	(check one)					
а.	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	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	(007) 007 0044	Const Address						
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	ella.com 				
d.	Volume of waste shipped to p 1,521	rocessing or disposal f cu yd gal	facility in the previous	-					
			EFICIAL USE						
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No			
	If "Yes", list the general permi	t number or approval n	umber.						
b.	Volume of waste beneficially t	used in the previous ye cu yd gal	ar. ☐ Ib ☐ ton	(check one)					

		3. Process Description				
a.	A detailed description of the the waste, as specified in the specified in			esses producing	⊠ Yes	☐ No
b.	A schematic of the manufa as specified in the instruct		ontrol processes proc	ducing the waste,	⊠ Yes	☐ No
C.	If portions of the informati a confidentiality claim, as			n for Yes	☐ No	⊠ N/A
	SEC	TION C. MANAGEM	ENT OF RESIDU	JAL WASTE		
		1. PROCESSING OR	DISPOSAL FACILITY(IE	ES)		14.27
The a	ea below (ad.) will accomn	nodate the identification of	two facilities. Attach	n additional sheets	if necessary	'-
a.	Solid waste permit number 100361	r(s) for processing or dispo	osal facility being util	ized.		
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		
C.	Facility Contact Name	Mike Manderfeld				
	Title					
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com	
d.	Phone Volume of waste shipped t 275	o processing or disposal f	acility in the previous	s year. n (check one)		
d.	Phone Volume of waste shipped t	o processing or disposal f	acility in the previous	s year. n (check one)		
	Phone Volume of waste shipped t 275 Solid waste permit number	co processing or disposal f cu yd gal r(s) for processing or dispo	acility in the previous b	s year. n (check one)		
a.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1	to processing or disposal f cu yd gal r(s) for processing or dispo	acility in the previous b	s year. n (check one)		
a.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1	co processing or disposal f cu yd gal r(s) for processing or dispo Chemung County Lat 1690 Lake Street	acility in the previous b tor tor tor tor torsal facility being util	s year. n (check one) ized.		
a.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address City State ZIP	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous lb tor cosal facility being util ndfill	ized.		
a.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous b tor tor tor tor torsal facility being util	s year. n (check one) ized.		
a.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous b tor to	ized.		
a. b.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous b tor to	ized. 14903 Chemung		
a. b.	Phone Volume of waste shipped to 275 Solid waste permit number 8-0728-00004 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous b tor to	ized.		
a. b.	Phone Volume of waste shipped to 275 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 275	co processing or disposal for cu yd gal gal r(s) for processing or disposal for galaxy gala	acility in the previous b	ized. 14903 Chemung carla.canjar@ca	sella.com	
a. b.	Phone Volume of waste shipped to 275 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	co processing or disposal for cu yd gal gal r(s) for processing or disposal	acility in the previous b tor bsal facility being util ndfill NY County ger Email Address	ized. 14903 Chemung carla.canjar@ca	sella.com	
a. b.	Phone Volume of waste shipped to 275 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 275	Chemung County Late 1690 Lake Street Elmira Elmira Carla Canjar Environmental Manage (585) 797-5941 o processing or disposal for cu yd gal	acility in the previous b	ized. 14903 Chemung carla.canjar@ca	sella.com	
a. b.	Phone Volume of waste shipped to 275 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 275	Chemung County Lare 1690 Lake Street Elmira Elmira Carla Canjar Environmental Manage (585) 797-5941 o processing or disposal for cu yd gal	acility in the previous b	ized. 14903 Chemung carla.canjar@ca	sella.com	No
a. b. c.	Volume of waste shipped to 275 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 116	Chemung County Lare 1690 Lake Street Elmira Elmira Carla Canjar Environmental Manage (585) 797-5941 o processing or disposal for gale cu yd gale gale gale gale gale gale gale gale	acility in the previous b	ized. 14903 Chemung carla.canjar@ca	sella.com	No No
a. b. c.	Volume of waste shipped to 275 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 116	Chemung County Lare 1690 Lake Street Elmira Elmira Carla Canjar Environmental Manage (585) 797-5941 o processing or disposal for gal cury gal gal cury gal gal cury gal	acility in the previous b	ized. 14903 Chemung carla.canjar@ca	sella.com	No No

100		PROCESS DESCRIPTION & SCH							
a.	A detailed description of the the waste, as specified in the	manufacturing and/or pollution instructions, is attached.	control processes	oroducing	⊠ 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.		submitted are confidential, the cribed in the instructions, is at		☐ Yes	No	⊠ N/A			
	SECTION	ON C. MANAGEMENT (The second secon	VASTE					
		1. Processing or Dispos	AL FACILITY(IES)						
The ar	ea below (ad.) will accommod	ate the identification of two fac	ilities. Attach addit	ional sheets i	f necessary.				
а.	100945	for processing or disposal fac	ility being utilized.						
b.	Facility Name	Cumberland County Landfill							
	Address Line 1	135 Vaughn Road							
	Address Line 1								
	Address City State ZIP	Newburg	PA	17240					
	Municipality	Newburg Boro	County Cum	berland					
C.	Facility Contact Name	Dusty Hilbert							
	Title	Compliance Manager							
	Phone	(717) 729-5261 Ema	ail Address dhilb	ert@iswaste	.com				
d.	18	rocessing or disposal facility in cu yd gal lt	ton	(check one)					
a.		for processing or disposal fac	ility being utilized.						
b.	Facility Name								
	Address Line 1								
	Address Line 1		······································						
	Address City State ZIP								
	Municipality		County						
c.	Facility Contact Name								
	Title								
	Phone	Ema	il Address						
d.	Volume of waste shipped to p	rocessing or disposal facility in	the previous year.						
		cu yd 🔲 gal 🔲 lb	ton	(check one)					
		2. BENEFICIAL	USE	1.	-				
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No			
	If "Yes", list the general perm	t 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 Title **Environmental Specialist** Date Signature

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073086

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#:

10073086

PAGE:

1 of 2

PO#:

AF77049

PWS ID#

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNR58702-Pad 13

RECEIVED FOR LAB BY: DLM2

DATE: 07/20/2010 13:25

Page 1 of 2

RECEIVED FOR LAB BY: DLM2	DATE:	07/20/2010 13:25			P	age 1 of 2
SAMPLE: Air Cuttings		Lab ID: 10073086-001A	Compo	site		
SAMPLED BY: SG	Sampl	e Time: 07/13/2010 19:00	01.00			
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
Sodium	223 mg/Kg-dry	EPA 6010B	167	07/22/10 7:00	07/22/10	GSR-CV
Chloride	756 mg/Kg-dry	EPA 300.0	58.1	07/21/10 12:33	07/22/10	HDP-CV
MBAS, calculated as LAS, mol wt 342 g/mol	13 mg/Kg	N SM5540C	2.5	07/20/10 8:25	07/20/10	BJW-CV
Percent Moisture	14.0 %	SM2540G		07/21/10 16:00	07/22/10	BJW-CV
SAMPLE: Air Cuttings		Lab ID: 10073086-001B	Compo	site		
SAMPLED BY: SG	Sampl	e Time: 07/13/2010 19:00				
- .	.	3.6 cl 1	SLOQ	A		
<u>Test</u>	Result	Method	0.04	Analysis Start	Analysis End	
Moisture	9.54 %	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 9:50	07/22/10	IC-SA
рН	7.91@21.9°C	EPA 9045C		07/21/10 12:15	07/21/10	NFM-SA
Phosphorus	135 mg/kg-dry	EPA 365.3	6	07/22/10 11:00	07/23/10	MED-SA
SAMPLE: Air Cuttings		Lab ID: 10073086-001C	Compo	site		
SAMPLED BY: SG	Sampl	e Time: 07/13/2010 19:00				
Tank	Danult	Markad	<u>SLOQ</u>	Amalusia Otasi	A	A a b 4 *
Test	Result	Method 50.74		Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	150 mg/Kg	EPA 9071		07/22/10 11:10	07/22/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: TCLP Leachate of Air Cu	ttings	Lab ID: 10073086-001E	Compo	site		
SAMPLED BY: SG	Sample	e Time: 07/13/2010 19:00				
			SLOQ			
<u>Test</u>	Result	Method		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	07/22/10 9:00	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
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	07/22/10 12:30	07/22/10	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

N Parameter is not NELAC certified

	/ 1	· .		
MANAGER	Marie	M. Davis	DATE:	7/27/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10073086

10073086

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

SEND DATA TO:

Steve Gridley NAME:

WO#:

COMPANY: Talisman Energy USA, Inc. ADDRESS:

PAGE: 2 of 2 337 Daniel Zenker Dr

Horseheads, NY 14845 PO#: AF77049

PWS ID# **TEST REPORT** PHONE: (607) 562-4000

FAX: (607) 562-4001

DCNR58702-Pad 13

RECEIVED FOR LAB BY: DLM2 DATE: 07/20/2010 13:25 Page 2 of 2 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** < 0.500 mg/L 0.500 07/22/10 12:30 Selenium - TCLP extracted EPA 6010B 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**

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

Parameter is not NELAC certified

MANAGER	Carri M. Oarles	DATE:	7/27/2010

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10080775

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#:

10080775

PAGE:

1 of 1

PO#:

AF76317

PWS ID#

PHONE:

(607) 562-4000

FAX: (607) 562-4001

DCNR58702 Pad 13

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

Page 1 of 1

RECEIVED FOR LAB BY: DLM2	DATE.	06/05/2010 9:50			P	age 1 of 1
SAMPLE: Inv. Cuttings SAMPLED BY: SG		ab ID: 10080775-001A Time: 08/04/2010 12:36	Grab SLOQ			
Test	Result	<u>Method</u>	<u>ocow</u>	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	62800 mg/Kg	EPA 9071		08/09/10 11:25	08/09/10	
Sample Note: Analysis performed	by Microbac-Erie					
SAMPLE: Inv. Cuttings	L	ab ID: 10080775-001B	Grab			
SAMPLED BY: SG	Sample	Time: 08/04/2010 12:36	SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Moisture	32.5 %	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 14:30	08/05/10	IC-SA
Ηq	7.95@22.0°C	EPA 9045C		08/06/10 14:21	08/06/10	SG-SA
SAMPLE: TCLP Leachate of Inv. Cu	ttings	ab ID: 10080775-001D	Grab			11 333 1133
SAMPLED BY: SG	Sample	Time: 08/06/2010 7:45				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst *
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
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	0.223 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.

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

MANAGER	Carrie 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 o	or legib attache	oly printed in the spaced of sheet as Form 26	urately completed. All requing a provided. If additional spaces, reference the item numbers are the date.	pace is necessary, ide ber and identify the	ntify Date F	The same of the sa	General Notes
Genera	l Refer	rence 287.54					
Date Pi	repared	d/Revised	February 11, 2011				
		SECTION A	A. CLIENT (GENERATO	R OF THE WASTE) I	NFORMATI	ON	
Compa							
		ergy USA Inc.				ED4.0	
	-	y, Name of Parent Co ergy Inc.	mpany			EPA Gene N/A	rator ID#
		ling Address Line 1		Company Mailing Addr	ess Line 2		
		d Place		ompany maning Addi	cos Line 2		
		ress Last Line – City	State	Zip+4	Phone	····	Ext
Warrer	ndale		PA	15086	(724) 81	4-5300	
_	ny Cor	ntact Last Name	First Name	MI		Suffix	
Brown			Dina				
Munici				County			
Warrer Contac		e Ext	Contact Email Address	Allegheny			
(724) 8		-	dybrown@talismanusa.	com			
			pany Mailing Address (noted			Yes	⊠ No
			generation and storage. Drill		during natural ga		
	NR 587	(02-014) well pad site	located at 335 Carey Road, W	ard Township, Tioga Co	unty, PA. Wast	te is stored i	in containers
on site. Munici	pality	Ward	County Tioga	1	State	∍ PA	
on site. Munici	pality	Ward				∍ PA	
	_			FE DESCRIPTION		PA	Time
Munici	lual	Res	SECTION B. WAS				
Municip Resid	lual	Res	SECTION B. WAS sidual Waste e Description	FE DESCRIPTION	Unit of Measure cu yd	gal	Time Frame
Municip Resid Waste	lual	Res Code	SECTION B. WAS sidual Waste e Description ad gas)	Amount 1,959	Unit of Measure cu yd		Time
Resid Waste	lual Code	Res Code Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description d gas) 1. GENERAL F	Amount 1,959 PROPERTIES	Unit of Measure	gal	Time Frame
Resid Waste 810	lual Code pH Ra	Res Code Drill cuttings (oil an	SECTION B. WAST sidual Waste te Description ad gas) 1. GENERAL F 5.81 to 10.08	Amount 1,959 PROPERTIES (based on analyses or	Unit of Measure	gal	Time Frame
Resid Waste 810	lual Code pH Ra	Res Code Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description d gas) 1. GENERAL F	Amount 1,959 PROPERTIES (based on analyses or ethod 9095)	Unit of Measure	gal	Time Frame
Resid Waste 810	lual Code pH Ra	Res Code Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) 095)	Unit of Measure	gal	Time Frame
Resid Waste 810 a. b.	dual Code pH Ra Physic	Res Code Drill cuttings (oil an	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (95) ature & pressure)	Unit of Measure cu yd lb knowledge)	gal	Time Frame One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Res Code Drill cuttings (oil an nge cal State	SECTION B. WAST sidual Waste e Description Id gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (95) ature & pressure)	Unit of Measure cu yd lb knowledge)] gal	Time Frame One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Res Code Drill cuttings (oil an nge cal State	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (95) ature & pressure) (Odd Phases of Separatio	Unit of Measure Cu yd Ib knowledge) or Earthy/S One	gal ton □	Time Frame One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Res Code Drill cuttings (oil an nge cal State	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Method 90) Solid (EPA Method 90) Gas (ambient temperate of Solid or Liquid Control	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (955) (ature & pressure) (C	Unit of Measure Cu yd Ib knowledge) or Earthy/S One	gal ton □	Time Frame One Time
Resid Waste 810 a. b.	dual Code pH Ra Physic	Res Code Drill cuttings (oil an nge cal State	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Method 90 Solid (EPA Method 90 Gas (ambient temperate of Solid or Liquid Describe each phase of second	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (955) (ature & pressure) (Odd Phases of Separation Soil and Reserved and Reserved ATTACHMENTS	Unit of Measure cu yd b knowledge) or Earthy/S n One ock Fragments	gal	Time Frame One Time
Resid Waste 810 a. b.	pH Rai Physic	Res Code Drill cuttings (oil an nge cal State cal Appearance sults of a detailed chections, is attached.	SECTION B. WAST sidual Waste e Description Id gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Method 90) Gas (ambient temperate of Solid or Liquid o	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (based on analyses or ethod 9095) (based on analyses or ethod 9095) (cature & pressure) (cature & pressure	Unit of Measure cu yd b knowledge) or Earthy/S n One ock Fragments	gal	Time Frame One Time
Resid Waste 810 a. b.	pH Ra Physic Physic The re instruc A deta	Res Code Drill cuttings (oil an nge cal State cal Appearance sults of a detailed che ctions, is attached. iled description of the	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liqui Describe each phase of s 2. CHEMICAL ANALY emical characterization of the	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (based on service & pressure) (c Odd Phases of Separation Separation Soil and Research of Separation Separation of Separatio	Unit of Measure Cu yd Db Senowledge) Or Earthy/Son One Ock Fragments	gal	Time Frame One Time
Resid Waste 810 a. b. c.	pH Ra Physic Physic The re instruc A deta	Res Code Drill cuttings (oil an nge cal State cal Appearance sults of a detailed chections, is attached. iled description of the pality assurance/quality	SECTION B. WAST sidual Waste e Description Id gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Method 90) Gas (ambient temperate of Solid or Liquid o	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (based on service & pressure) (c Odd Phases of Separation Separation Soil and Research of Separation Separation of Separatio	Unit of Measure Cu yd Db Senowledge) Or Earthy/Son One Ock Fragments	gal	Time Frame One Time
Resid Waste 810 a. b. c. d.	pH Ra Physic The re instruct A deta The quattacher	Res Code Drill cuttings (oil an nge cal State sults of a detailed che ctions, is attached. iled description of the lality assurance/quali ed. sults of the hazardou	SECTION B. WAST sidual Waste e Description ad gas) 1. GENERAL F 5.81 to 10.08 Liquid Waste (EPA Me Solid (EPA Method 90 Gas (ambient tempera Color Greyish Black Number of Solid or Liqui Describe each phase of s 2. CHEMICAL ANALY emical characterization of the	Amount 1,959 PROPERTIES (based on analyses or ethod 9095) (based on services) (conditions of the pressure) (conditions of the pres	Unit of Measure cu yd lb knowledge) or Earthy/S n One ock Fragments in the	gal	Time Frame One Time

25		PROCESS DESCRIPTION &				
a.	A detailed description of the the waste, as specified in the		ution control proce	sses producing	⊠ Yes	☐ No
b.	A schematic of the manufacture as specified in the instruction		trol processes prod	ucing the waste,	⊠ Yes	☐ No
C.	If portions of the information a confidentiality claim, as des	submitted are confidentia cribed in the instructions	l, the substantiatior , is attached.	n for Yes	☐ No	⊠ N/A
	SECTION	DN C. MANAGEME	NT OF RESIDU	AL WASTE		
	**************************************	1. PROCESSING OR DI	SPOSAL FACILITY(IE	S)		
The ar	ea below (ad.) will accommod	ate the identification of tw	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 Landfili				
Ì	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 856		ility in the previous ☐ lb ton	year. (check one)		
a.	Solid waste permit number(s) 100361	for processing or dispose	al facility being utili	zed.		
b.	Facility Name	McKean County Landfil	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@gma	ail.com	
d.	Volume of waste shipped to p					
	667	cu yd 🔲 gal [☐ Ib ton	(check one)		
Ž.,		2. Benefi	CIAL USE			-
a.	Has the waste been approved	for beneficial use?			Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially	·				
	0 📙	cu yd gal	lb ton	(check one)		

		3. PROCESS DESCRIPTION				•
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		ontrol processes pro	ducing the waste,	⊠ Yes	☐ No
c.	If portions of the information a confidentiality claim, as de			on for Yes	☐ No	⊠ N/A
	SECT	ION C. MANAGEÑ	ENT OF RESIDU	JAL WASTE		
		CONTRACTOR AND	DISPOSAL FACILITY(II	NEW PROCESSOR OF THE PR		¥7
The a	rea below (ad.) will accommo				if necessary	
a.	Solid waste permit number(8-4630-00010	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					
	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	ella.com	
d.	Volume of waste shipped to		facility in the previous	s year.		
	289	☐ cuyd ☐ gal	☐ lb tor	n (check one))	
a.	Solid waste permit number(s 100945	s) for processing or disp	osal facility being util	ized.		
b.	Facility Name	Cumberland County	Landfill			
	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 Manage				
		(717) 729-5261	Email Address	dhilbert@iswaste	e.com	
	Phone	(111)129-3201				
d.	Volume of waste shipped to 147		facility in the previous	s year.		
d.	Volume of waste shipped to 147	processing or disposal (cu yd gal 2. BEN		s year.		225
	Volume of waste shipped to	processing or disposal (cu yd gal 2. BEN	☐ lb ton	s year.		⊠ No
	Volume of waste shipped to 147	processing or disposal for upd gal 2.8BEN d for beneficial use?	☐ Ib ⊠ ton	s year.		
, e	Volume of waste shipped to 147 Has the waste been approve	processing or disposal for upd gal 2. BEN d for beneficial use? nit number or approval r	☐ Ib	s year.	Yes	

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: 10111574

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#:

10111574

PAGE:

1 of 2

PO#:

AF76317

PWS ID#

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

DCNR58702 Pad 14

RECEIVED FOR LAB BY: SCP

DATE: 11/10/2010 8:43

TEST REPORT

Page 1 of 2

SAMPLE: Air Cuttings SAMPLED BY: SG

Test

Lab ID: 10111574-001A Grab

Sample Time: 11/07/2010 18:19

SLOQ

Analysis Start Analysis End Analyst *

11/12/10 13:45

11/09/10 17:30

Analysis Start

11/13/10 12:30

11/12/10

11/09/10

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

13500 mg/Kg

Result

Result

38.0 %

< 0.1 %

Result

< 0.0008 mg/L

Method EPA 9071

Method

Moisture Calc.

EPA 9095A

EPA 9045C

EPA 7470A

Lab ID: 10111574-001B

Grab

SAMPLE: Air Cuttings SAMPLED BY: SG

Test

Sample Time: 11/07/2010 18:19

SLOQ

0.01

0.1

Analysis Start Analysis End Analyst* 11/12/10 11/11/10 8:00

SG-SA

IC-SA

Moisture Free Liquid pΗ

8.09@22.2°C

Lab ID: 10111574-001D

Sample Time: 11/11/2010 8:00

Grab

0.0008

0.500

0.100

0.500

0.100

0.200

11/12/10 15:00 11/12/10 SG-SA

RMD-CV

SAMPLE: TCLP Leachate of Air Cuttings

SAMPLED BY: SG Test Mercury - TCLP extracted

Arsenic - TCLP extracted

Barlum - TCLP extracted

Copper - TCLP extracted

Zinc - TCLP extracted

Cadmium - TCLP extracted

Chromium - TCLP extracted

SLOQ Method

< 0.500 mg/L **EPA 6010B** < 10.00 mg/L **EPA 6010B** < 0.100 mg/L **EPA 6010B** < 0.500 mg/L **EPA 6010B** < 0.100 mg/L **EPA 6010B**

11/13/10 8:30 0.500 11/13/10 8:30 10.00 0.100 11/13/10 8:30 0.500 11/13/10 8:30 11/13/10 8:30 0.100

11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10

Lead - TCLP extracted Nickel - TCLP extracted Selenium - TCLP extracted Silver - TCLP extracted

< 0.500 mg/L **EPA 6010B** < 0.100 mg/L EPA 6010B < 0.500 mg/L **EPA 6010B** < 0.100 mg/L **EPA 6010B** 0.275 mg/L **EPA 6010B** 11/13/10 8:30 11/13/10 8:30 11/13/10 8:30 11/13/10 8:30

11/13/10 8:30

11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10 RMD-CV 11/13/10 RMD-CV

Analysis End Analyst*

11/14/10 ··· 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

Carri M. Davis MANAGER

DATE:

11/16/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10111574

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#:

10111574

PAGE:

2 of 2

PO#:

AF76317

PHONE:

FAX:

(607) 731-0145

(607) 562-4001

TEST REPORT

PWS ID#

DCNR58702 Pad 14

RECEIVED FOR LAB BY: SCP

DATE: 11/10/2010 8:43

Page 2 of 2

HDP-CV

SAMPLE: Air Cuttings

Test

Composite SLOQ

SAMPLED BY: SG

Sample Time: 11/07/2010 18:19 Result

Method

Lab ID: 10111574-001E

Analysis Start 11/12/10 9:15 Analysis End Analyst* 11/15/10 **GSR-CV**

EPA 6010B 173 mg/Kg Sodium 71.5 244 mg/Kg Chloride **EPA 300.0** 52.0 11/11/10 16:32 11/11/10

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

MANAGER	Carrie M. Davis	DATE:	11/16/2010

							# 	
CHAIN OF CUSTODY							PAGE1	DF1
Talisman / UEG								
geowetlands@aol.com						1	ARE SPECIAL DETECTION	1
twellin@rallysulutions.ca	DEED	loen.	ልፕሮ ሲ	147		1	N/O#: 10111574NEEDED: ☐YES / ☑	
twomarker ally solutions.ca			ATE SA LECT		7	(F)	S BEING USED FOR: IF YES, PLEASE ATTACH OF DRINKING WATER SL SLUDGE TYDOH NYDEC PADEP IS A QC PACKAG	
						DA GI	W GROUNDWATER SO SOIL	E NEEDED?
CONTACT Steve Gridley	T	RANS	PORT		1,	/ 5V W	W WASTE WATER OTHER]NO
PH# 607-731-0145]	TO		•	$\perp \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \! \!$	DE	DEFONIZED WATER DI DISTILLED WATER PERSONAL OTHER IF YES, PLEASE TACH	REQUIREMENTS
FAX#	1	N COO	ATORY OLER		/		4 / H HYDROCHLORIC ACID OH SODIUM HYDROXIDE / 6 / S SULFURIC ACID AS ASCORBIC ACID	
BILL TO: Talisman		WITH		,	/ /		/ N NITRIC ACID AC. ACETIC ACID SO SODIUM SULFITE NH. AMMONIUM CHLORIDE	**
DOW AS TO TO	_	7	7	\neg		\Z	Thio SODIUM THIOSULFATE ZN ZINC ACETATE - NONE Hg MERCURIC CHLORIDE	
PO# AF 78273 PROJECT DESCRIPTION - 1				/*	/8	2/3	An incomplete chain of custody may delay the	fill out all
PROJECT DESCRIPTION DC PIC 58702 food 14 SAMPLER SIGNATURE / AFFILIATION	/	TIME SAMI	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Z /	/ E		processing of your sample(s).	able areas opletely
CX 300-	1	\$ / S	3/2	¥/	1		\$\\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	hiototi
CONTAINER / SAMPLING POINT	18		SAMO	SAME TO MARRIED STATES	/ 3	PRE INTIM S COMPOSITE S	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 Air Cuttings	11/7	1819	5es	<u>_</u>	Z^		TPH	
2							pH, Chlorides, Sodium	
3							TCLP 8 RCRA Metals + Cu, Ni, Zn	
4							Free Liquids / % Moisture	
5 A TPH		-						
6 B. off Free Ligar	ud	Δ	0)	, Ma	र्वात	ure	TCLP 8260 / 8270 ONLY IF the TPH	
7 C. T. Sanual							exceeds 120,000 mg/Kg	· · · · · · · · · · · · · · · · · · ·
8 DTCIPMETAL	6							- 標 - 標
9 E- CI, Na							72 HOUR TURNAROUND AND 11 15 10	S MUL
10							DAY TURNAROUND	
11								
LAB USE MILY	JiA v		· · · · ·		• •	-4		
DELIVERED BY C	iller	17.			· .	: 	TEMPERATURE UPON RECEIPT 8 °C ARRWAL	ON ICE Y N
RELINCUISHED BY:	•	D	ATE:	<u></u>		TIME: <	FY3 RECEIVED BY: DATE:	TIME:
RELINQUISHED BY:			ATE:	011		TIME:	RECEIVED BY: DATE:	TIME:
				.!				
RECINQUISHED BY:		D	ATE:	•,		TIME:		TIME: 843
					· ·		AdGr	phics Printing 570-888-0686

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10113522

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

OL. 101

10113522

PO#: AF78273

PHONE: (607) 731-0145 **TEST REPORT**

FAX:

(607) 562-4001

PWS ID#

WO#:

DCNR58702 Pod 14

RECEIVED FOR LAB BY: SCP

DATE: 11/22/2010 12:33

Page 1 of 1

SAMPLE: Inv. Cuttings		Lab ID: 10113522-001A	Grab			
SAMPLED BY: SG	San	ple Time: 11/21/2010 9:00	81.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
Total Petroleum Hydrocarbons	3260 mg/Kg	EPA 9071	170	11/23/10 0:00	11/23/10	
Sample Note: Analysis performed by	y Microbac Laboratorie	es, IncErie Division				
SAMPLE: Inv. Cuttings		Lab ID: 10113522-001B	Grab			
SAMPLED BY: SG	San	ple Time: 11/21/2010 9:00				
Test	Result	Method	SLOQ	Analysis Start	Analyşis End	Analyst *
Moisture	37.9 %	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 17:05	11/23/10	IC-SA
pH	6.72@23.9°C	EPA 9045C	•••	11/23/10 14:00	11/23/10	SG-SA
		Lab ID: 10113522-001D	Grab			
SAMPLE: TCLP Leachate of Inv. Cutt SAMPLED BY: SG	_		Grau			
SAMPLED BY: SG	San	ple Time: 11/24/2010 8:00	SLOQ			
<u>Test</u>	<u>Result</u>	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	8000.0	11/27/10 12:35	11/28/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/27/10 8:15	11/27/10	JRA-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	11/27/10 8:15	11/27/10	JRA-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/27/10 8:15	11/27/10	JRA-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/27/10 8:15	11/27/10	JRA-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/27/10 8:15	11/27/10	JRA-ÇV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/27/10 8:15	11/27/10	JRA-CV
Nickel - TCLP extracted	< 0.100 mg/L	2 EPA 6010B	0.100	11/27/10 8:15	11/27/10	JRA-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	11/27/10 8:15	11/27/10	JRA-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	11/27/10 8:15	11/27/10	JRA-CV
Zinc - TCLP extracted	0.256 mg/L	EPA 6010B	0.200	11/27/10 8:15	11/27/10	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

Z Due to matrix bias, spike recovery was outside acceptance limits

MANAGER (Mui M. Caus) DATE: 11/30/2010	MANAGER	Carrie	M. Davis	DATE	: 11/30/2010
--	---------	--------	----------	------	--------------

REPORT TO: Talisman / UEG							
geowetlands@aol.com						W/O#: 10113522	ARE SPECIAL DETECTION LIMITS
	REFR	IGERATE	SAMPL	ES		RESULTS ARE BEING USED FOR:	NEEDED: YES / NO
		R COLLE			/DV	DRINKING WATER SL SLUDGE NYDOH NYDEC PAD	
					/ GV	GROUND WATER SO SOIL	
CONTACT Steve Gridley	П	RANSPO	RT		/ sv w	SURFACE WATER HZ HAZARDOUS LANDFILL WASTE WATER OTHER	YES ☑NO
PH# 607-731-0145	\square .,	TO			DE	DEIONIZED WATER DI DISTILLED WATER PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#		BORATO	HY R		1/8	/ H HYDROCHLORIC ACID OH SODIUM HYDROXIDE S SULFURIC ACID AS ASCORBIC ACID	
BILL TO: Talisman		WITH ICE	 E	/ .	/ 🐒 /	N NITRIC ACID AC ACETIC ACID SO ₃ SODIUM SULFITE NH ₄ AMMONIUM CHLORIDE	
		7	//	′ /	20/	Thio SODIUM THIOSULFATE ZN ZINC ACETATE NONE Ha MERCURIC CHLORIDE	/ & / & / & / & /
PO# AF78273		/. /	د/ <i>ڇ</i>	/8	<u> </u>	- NONE Hg MERCURIC CHLORIDE	Please fill out all
PROJECT DESCRIPTION BODY						An incomplete chain of custody may delay the processing of your sample(s).	applicable areas
SAMPLER SIGNATURE / AFFILIATION	/6			(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	completely
CONTAINER SAMPLING POINT	7	TIME OF SAME	SAMPLE MATRIX	3	PRES 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). ANALYSISTO BE PERFORMED (PER CONTAINER)	Please fill out all applicable areas completely LAB USE ONLY
1 Inv Cuttings	19/21	900 90		Se	W	ГРН	
2						pH P	
3				1	<u> </u>	TCLP 8 RCRA Metals + Cu, Ni, Zn	
4						Free Liquids / % Moisture	
5							
6				†		Perform BTEX ONLY IF the TPH	p. p.
7						exceeds 100,000 mg/Kg	
8							
9						72 HOUR TURNAROUND	
10				\dagger		DAY TURNAROUND	
11							
LAB USE ONLY RAS ARE TO SEE THE SECOND OF TH							
						PARTY OF THE APPEARAGE OF ONE TO THE PARTY OF THE PARTY O	EZ CO PARRIVALION (CE MAN
RELINOURSHED BY:		DATE	: 1221,	ر ري الم	TIME:	RECEIVED BY:	DATE: TIME:
RELINQUISHED BY:		DATE			TIME:	RECEIVED BY:	DATE: TIME:
			1 1				1 1
RELINQUISHED BY:		DATE	$i_{I} = i$	ľ	TIME:	RECEIVED BY: A MARCH AND A LA	DATE: 102 / 10 TIME: 13:33

CHAIN OF CUSTODY

PAGE 1 OF 1

Benchmark Analytics, Inc. Eastern Division

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121726

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#: 10121726

PO#: A

AF77906

1 of 3

PWS ID#

PAGE:

PHONE: FAX:

(607) 562-4000

(607) 562-4001

DCNRS8702 Pad 14

RECEIVED FOR LAB BY: RML DATE: 12/09/2010 15:45

Page 1 of 3

TEOLIVED FOR EACH IN THE	DAI	L. 12/00/2010 10:40				igo i oi s
SAMPLE: Air or Gel Cuttings		Lab ID: 10121726-001A	Grab			
SAMPLED BY: SG	San	nple Time: 12/08/2010 17:14	SLOQ			
<u>Test</u>	Result	Method	<u> </u>	Analysis Start	Analysis End	Analyst *
Ignitability	Neg ASIS °F	SW846 1030		12/15/10 13:30	12/15/10	
Sample Note: Analysis performed	d by QC Laboratories					
SAMPLE: Air or Gel Cuttings		Lab ID: 10121726-001C	Grab		****	
SAMPLED BY: SG	San	nple Time: 12/08/2010 17:14				
	5 11	A. d d d.	<u>SLQQ</u>	4 - 1 - 2 - 64 - 4	A 6 1	A 1 - 1 *
<u>Test</u>	<u>Result</u>	<u>Method</u>		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	1000 mg/Kg	SW846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV
SAMPLE: Air or Gel Cuttings		Lab ID: 10121726-001D	Grab			
SAMPLED BY: SG	San	ple Time: 12/08/2010 17:14				
			SLOQ			4
<u>Test</u>	<u>Result</u>	Method		Analysis Start	Analysis End	
% Solids	68.91 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
Total Volatile Solids	18.97 % 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: 10121726-001F	Grab			
SAMPLED BY: SG	San	ple Time: 12/11/2010 12:45				
<u>_</u>	.		SLOQ		A	A14 *
<u>Test</u>	<u>Result</u>	Method		Analysis Start	Analysis End	
Pyridine	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
1,4-Dichlorobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
o-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-\$A
p-Cresol/m-Cresol	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Hexachloroethane	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Nitrobenzene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
Hexachlorobutadiene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	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
- S Spike Recovery outside accepted recovery limits

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

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121726

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#:

10121726

PAGE:

2 of 3

PO#:

AF77906

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

PWS ID#

DCNRS8702 Pad 14	1
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EIVED 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	12/14/10 8:37	12/14/10	RHH-SA
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-S/
Naphthalene	< 0.10 mg/L	EPA 8270C	0.10	12/14/10 8:37	12/14/10	RHH-SA
PLE: TCLP Leachate of Air o	r Gel Cuttings	Lab ID: 10121726-001G	Grab			
SAMPLED BY: SG	Sample	e Time: 11/24/2010 8:00				
Test	Result	Method	<u>SLOQ</u>	Analysis Start	Analysis End	Analyst
Strontium - TCLP extracted	< 0.050 mg/L	EPA 6010B	0.050	11/27/10 8:15	11/27/10	JRA-C\
Sample Note: Sample for TCLP	-			11/27/10 0.10	11/2//10	JIVA-U
Cample Note: Cample for For						
PLE: TCLP Leachate of Air o	r Gel Cuttings	Lab ID: 10121726-001H	Grab			
SAMPLED BY: SG	Sample	Time: 12/11/2010 12:45				
			01.00			
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst
<u>Test</u> pH	Result 5.81@16.5°C	<u>Method</u> SM4500H+B	SLOQ	Analysis Start 12/14/10 8:00	Analysis End 12/14/10	Analyst SG-SA
	5.81@16.5°C		<u>SLOQ</u> Grab			-
pH	5.81@16.5°C	SM4500H+B	Grab			-
pH PLE: ZHE Extract of Air or Go SAMPLED BY: SG	5.81@16.5°C el Cuttings Sample	SM4500H+B Lab ID: 10121726-001l e Time: 12/11/2010 12:45		12/14/10 8:00	12/14/10	SG-SA
pH PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test	5.81@16.5°C el Cuttings Sample <u>Result</u>	SM4500H+B Lab ID: 10121726-001l a Time: 12/11/2010 12:45 Method	Grab SLOQ	12/14/10 8:00 Analysis Start	12/14/10 Analysis End	SG-SA
pH PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-0011 a Time: 12/11/2010 12:45 Method EPA 8260B	Grab SLOO 0.0250	12/14/10 8:00 Analysis Start 12/13/10 8:11	12/14/10 Analysis End 12/13/10	SG-SA Analyst CTM-SA
pH PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-0011 Time: 12/11/2010 12:45 Method EPA 8260B EPA 8260B	Grab SLOQ 0.0250 0.0250	12/14/10 8:00 Analysis Start 12/13/10 8:11 12/13/10 8:11	12/14/10 Analysis End 12/13/10 12/13/10	Analyst CTM-S
PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride Chlorobenzene	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L < 0.0250 mg/L < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-0011 Time: 12/11/2010 12:45 Method EPA 8260B EPA 8260B EPA 8260B	Grab SLOQ 0.0250 0.0250 0.0250	Analysis Start 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11	12/14/10 Analysis End 12/13/10 12/13/10 12/13/10	Analyst CTM-S. CTM-S.
PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride Chlorobenzene Chloroform	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L < 0.0250 mg/L < 0.0250 mg/L < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-001l a Time: 12/11/2010 12:45 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Grab SLOQ 0.0250 0.0250 0.0250 0.0250	Analysis Start 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11	Analysis End 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10	Analyst CTM-S. CTM-S. CTM-S.
PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,2-Dichloroethane	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-001l a Time: 12/11/2010 12:45 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Grab SLOQ 0.0250 0.0250 0.0250 0.0250 0.0250	Analysis Start 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11	Analysis End 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10	Analyst CTM-S. CTM-S. CTM-S. CTM-S.
PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,2-Dichloroethane 1,1-Dichloroethene	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-001l a Time: 12/11/2010 12:45 Method EPA 8260B	Grab SLOQ 0.0250 0.0250 0.0250 0.0250 0.0250 0.0250	Analysis Start 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11	Analysis End 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10	Analyst CTM-S. CTM-S. CTM-S. CTM-S. CTM-S. CTM-S.
PLE: ZHE Extract of Air or Go SAMPLED BY: SG Test Benzene Carbon tetrachloride Chlorobenzene Chloroform 1,2-Dichloroethane	5.81@16.5°C el Cuttings Sample Result < 0.0250 mg/L	SM4500H+B Lab ID: 10121726-001l a Time: 12/11/2010 12:45 Method EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	Grab SLOQ 0.0250 0.0250 0.0250 0.0250 0.0250	Analysis Start 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11 12/13/10 8:11	Analysis End 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10 12/13/10	-

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- Analyte detected in the associated Method Blank
- Spike Recovery outside accepted recovery limits S

MANAGER	Carrie M. Davis	DATE:	12/16/2010
MAINAGEIZ	any M. Cares		

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121726

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

SEND DATA TO:

NAME: Dina Brown

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ADDRESS: 337 Daniel Zenker Dr

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3 of 3

PO#:

AF77906

PHONE: FAX:

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

TEST REPORT

PWS ID#

DOMDC0700 Dad 44

DCNRS8702 Pad 14							
RECEIVED FOR LAB BY: RML	DAT	E: 12/0	9/2010 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	s	EPA 8260B	0.0500	12/13/10 8:11	12/13/10	CTM-SA
SAMPLE: ASTM Extract of Air or Ge	el Cuttings	Lab IE	D: 10121726-001J	Grab			
SAMPLED BY: SG	- .	mple Time	e: 12/10/2010 11:15				
			hallanda and	SLOQ	A	An about Paul	A N 4 *
<u>Test</u>	Result		Method		Analysis Start	Analysis End	
Chemical Oxygen Demand	307 mg/L	B	HACH 8000	10	12/11/10 8:00	12/13/10	KMF-\$A
SAMPLE: ASTM Extract of Air or Ge	el Cuttings	Lab IC	o: 10121726-001L	Grab			
SAMPLED BY: SG	Sar	mple Time	e: 12/10/2010 11:15				
T	OIt		Madhad	SLOQ	Analysis Clast	Amalusia End	Analysis *
<u>Test</u>	Result		Method		Analysis Start	Analysis End	
рH	7.99@16.5°C		SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1780 mg/L		SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Air or Gel Cuttings	ı	Lab II	D: 10121726-001M	Grab			
SAMPLED BY: SG	Sar	mple Time	e: 12/10/2010 10:25	SLOQ			
<u>Test</u>	Result		Method		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.					

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- B Analyte detected in the associated Method Blank
- Spike Recovery outside accepted recovery limits

MANAGER	Carrie M. Davis	DATE:	12/16/2010
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CHAIN OF CUSTODY						ı	Bench	AGE 1 OF 1
Talisman / UEG					2	566 F	ennsyl W/O#: 10121726	
geowetlands@aol.com							Pennsyl W/O#: 10121726	ARE SPECIAL DETECTION LIMITS
geowatanaeaan.com	1 .						fan. jor of occ or in the	NEEDED: YES / NO
	1			AMPLI	ES	_	RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	AFII	ER UU	LLEC.	HON		,	N DRINKING WATER SL SLUDGE NYDOH NYDEC PADEI	P IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	1 .			_		/ s	0.7151102	YES ZINO
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BILL TO: Talisman	1		OLER		/	/8	S SULFURIC ACID AS ASCORBIC ACID N NITRIC ACID AC ACETIC ACID	/ / § /.
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PO# AF 78274	-	7	7.	7		§/	Thio SODIUM THIOSULFATE ZN ZINC ACETATE - NONE Hg MERCURIC CHLORIDE	\\ \vec{\pi} \ \vec{\pi} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	┨	/		2/3	/ 6		An incomplete chain of custody may delay the	Please fill out all
PROJECT DESCRIPTION Pol 14	1 /		13	13/	/ & /		processing of your sample(s).	applicable areas completely
SAMPLER SIGNATURE / AFFILIATION	1/	\$/	5/	ψ/ω	$\psi /$	¥/,	\$\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\$ /
CONTAINER / SAMPLING POINT	1/8	TIME SAMPLED	SAMPLING SAMPLING	SAME	/ 8	PRES INTIALS	SO ₃ SOOIUM 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 Air or Gel Cuttings	12/8	1714	وع	С	50		Ignitability, Reactive Sulfide & Cyanide	
2	1		1	С	ſ	1	PCBs, Total Solids	
3 A-Phenole, Ign.				G			Total Volatile Solids	
4 C - Reactivity				С			Ammonia-Nitrogen	
5 D- ZT - C 3				С	Ш.		Water Leaching Procedure: COD,	
6 E-Total Semple	V	1	V	C		1	Total Solids, Oil & Grease,	
7 F- TELP BNA, Pests.								
8 G-TCIP Herbs.								
9 H-TOLP PH		K~ 1	157	m ·	34 [26 HOUR TURNAROUND	
10 I - TCEP Vols.		L-	As	7	75		DAY TURNAROUND	
11 5- ASTM COD, NAS								
LAB USE ONLY LEE WERE DURY								tanggi aya sa
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RELINQUISHED BY			ATE:			ILIF.	FECEIVED BY:	DATE: TIME:
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RELINQUISHED 8Y:		D	ATE:		T	ME:	RECHIVED BY CALL TO	189 10 19515
								Ad Graphics Printing 570-888-0685

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121748

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

10121748

PAGE:

WO#:

1 of 3

PO#:

AF78274

Analysis Start Analysis End Analyst *

PWS ID#

PHONE:

(607) 562-4000

FAX:

(607) 562-4001

TEST REPORT

DCNRS8702 Pad 14

RECEIVED FOR LAR BY: RMI

DATE: 12/09/2010 15:45:

Page 1 of 3

RECEIVED FOR LAB BY: RML	DATI	E: 12/09/2010 15:45			Pa	age 1 of 3	
SAMPLE: Inv. Cuttings SAMPLED BY: SG	Sam	Lab ID: 10121748-001A	Grab	b			
Test Ignitability Sample Note: Analysis performed	<u>Result</u> Neg ASIS °F	<u>Method</u> SW846 1030	SLOQ	Analysis Start 12/15/10 13:30	Analysis End 12/15/10	Analyst *	
SAMPLE: Inv. Cuttings		Lab ID: 10121748-001C	Grab				
SAMPLED BY: SG	Sam	ple Time: 12/08/2010 17:14	SLOQ				
Test	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *	
Cyanide, Reactive	0.3 mg/Kg	SW 7.3.3.2	0.2	12/13/10 8:56	12/14/10	HDP-CV	
Reactive Sulfide	940 mg/Kg	\$W846 7.3	16	12/14/10 12:30	12/14/10	LTW-CV	
SAMPLE: Inv. Cuttings		Lab ID: 10121748-001D	Grab				
SAMPLED BY: SG	Sam	ple Time: 12/08/2010 17:14	21.00				
<u>Test</u>	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *	
% Solids	61.85 % Wght.	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA	
Total Volatile Solids	24.86 % Wght.	EPA 160.4	0.01	12/10/10 8:00	12/14/10	NFM-SA	
SAMPLE: TCLP Leachate of Inv. Cu	- ,	Lab ID: 10121748-001F ple Time: 12/11/2010 12:45	Grab			-	
		p	SLOQ				

SAMPLED BY: SG	Sample Time: 12/11/2010 12:45				
<u>Test</u>	Result	Method	SLOQ		
Pyridine	< 0.10 mg/L	EPA 8270C	0.10		
1.4 Diablacabanzana	< 0.10 mg/l	EPA 8270C	0.10		

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-\$A
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

Analyte detected in the associated Method Blank

MANAGED	$\sim L^{\prime}$.	na Davida	DATE:	12/16/2010
MANAGER	auri	M. ()avers	DATE.	12/10/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121748

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#:

10121748

PAGE:

2 of 3

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PHONE:

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TEST REPORT

PWS ID#

DC	NF	225	۱7	በጋ	Pa	d 1	14
	MI.	101	21'	UZ.	Гa	La I	-

RECEIVED FOR LAB BY: RML

DATE: 12/09/2010 15:45

Page 2 of 3

SAMPLE: TCLP Leachate of Inv		Lab ID: 10121748-001G	Grah			
Naphthalene	< 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
2,4-Dinitrotoluene	< 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
2,4,5-Trichlorophenol	< 0.10 mg/L	EPA 8270C	0.10	12/15/10 7:48	12/15/10	RHH-\$A

SAMPLED BY: SG

EPA 6010B

Sample Time: 11/11/2010 8:00

Test Strontium - TCLP extracted Method

SLOQ 0.050

Grab

Analysis End Analyst * **Analysis Start** 11/13/10 RMD-CV 11/13/10 8:30

< 0.050 mg/L Sample Note: Sample for TCLP extracted Strontium was received on 11/10/10 at 8:43 by SCP.

Result

SAMPLE: TCLP Leachate of Inv. Cuttings

SAMPLED BY: SG

Lab ID: 10121748-001H Sample Time: 12/11/2010 12:45

Result <u>Test</u> 6.05@16.7°C pΗ

<u>Method</u> SM4500H+B SLOQ Analysis Start

Analysis End Analyst*

SAMPLE: ZHE Extract of Inv. Cuttings SAMPLED BY: SG

Lab ID: 10121748-001I Sample Time: 12/13/2010 8:45

12/14/10 12/14/10 8:00 SG-SA

•	,		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-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:

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

DATE:

12/16/2010

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10121748

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#:

10121748

PAGE:

3 of 3

PO#:

AF78274

PHONE: FAX:

(607) 562-4000

(607) 562-4001

TEST REPORT

٠!

PWS ID#

DCNRS8702 I	Pad 1	4
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RECEIVED FOR LAB BY: RML	DAT	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 Inv. Cutti	ngs	Lab ID: 10121748-001J	Grab			
SAMPLED BY: SG	Şan	nple Time: 12/10/2010 11:15	SLOQ			
<u>Test</u>	Result	<u>Method</u>		Analysis Start	Analysis End	Analyst *
Chemical Oxygen Demand	362 mg/L	B HACH 8000	10	12/11/10 8:00	12/13/10	KMF-SA
SAMPLE: ASTM Extract of Inv. Cutti	ngs	Lab ID: 10121748-001L	Grab			
SAMPLED BY: SG	San	nple Time: 12/10/2010 11:15				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	Analyst *
рН	10.80@17.9°C	SM4500H+B		12/14/10 8:00	12/14/10	SG-SA
Total Solids	1910 mg/L	SM2540B	0.10	12/10/10 17:00	12/13/10	IC-SA
SAMPLE: Inv. Cuttings	; -	Lab ID: 10121748-001M	Grab			
SAMPLED BY: SG	San	nple Time: 12/08/2010 17:14	SLOQ			
<u>Test</u>	Result	Method		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 l	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.

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

MANAGER	Carri M. Darks	DATE:	12/16/2010
	9000 M. C		

CHAIN OF CUSTODY		Ber	nchma		. <u>1</u> OF 1
REPORT TO: Talisman / UEG		2566 Penr	Ea:	40404740	
geowetlands@aol.com		2000 , 0111	Phone W/O#:	10121748	PECIAL DETECTION LIMITS
· ·		. = 0	Fax: (ad:∏YES /☑NO
	REFRIGERATE SAMP AFTER COLLECTION			RESULTS ARE BEING USED FOR:	IF YES, PLEASE ATTACH
	711 FERT GOLLEGIION		ORINKING WATER SL SLUDGE GROUND WATER SO SOIL	NYDOH NYDEC PADEP	IS A QC PACKAGE NEEDED?
CONTACT Steve Gridley	TRANSPORT	/ sw :	SURFACE WATER HZ HAZARDOUS VASTE WATER OTHER	LANDFILL Mostoller	YES NO
PH# 607-731-0145	***	/ ne i		PERSONAL OTHER	IF YES, PLEASE ATTACH REQUIREMENTS
FAX#	LABORATORY		,	ODIUM HYDROXIDE SCORBIC ACID	/ / 6
BILL TO: Talisman	IN COOLER WITH ICE		N NITRIC ACID AC A	CETIC ACID	
		/ /§/ ,		MMONIUM CHLORIDE NC ACETATE	
PO# AF 78274	/ / 2/	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ERCURIC CHLORIDE	Please fill out all
PROJECT PESCRIPTION Pord 14			An Incomplete chain of custo processing of your se	dy may delay the	applicable areas
SAMPLER SIGNATURE / AFFILIATION	1 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		processing or your se		completely
CONTAINER SAMPLING POINT	DATE SAMPLED THE OF SAMPLING SAMPLE HATELY	SAMPLE TYPE - GRAB / COMPOSITE	ANALYSIS TO BE PERFORME	MMONIUM CHLORIDE NC ACETATE ERCURIC CHLORIDE dy may delay the ample(s).	Please fill out all applicable areas completely LAB USE ONLY
			<u> </u>	Company of the Compan	
1 Inv Cuttings	12/8 1714 50 C		nitability, Reactive Sulfide & Cy	anide	
2	. C	P	CBs, Total Solids		
3 A- frank, In.	G	To	otal Volatile Solids		
4 B - Reactivity	C	Aı	nmonia-Nitrogen		
5 D-TS, TVS	C	V	ater Leaching Procedure: CO	DD,	
6 E-T. Sample	С		Total Solids, Oil & Grease,		
7 F-TCLP BNA, feets.					
8 G-TEEP Hots. Sr	K= AS	THE CAR			
9 H-TCLP PH		STM YS, P	y_36 Hour Turnard	DUND	
10 I - TCLP Vols.	m-70	-1 1 11	DAY TURNAROU	IND	
11 J. ASTM CED, WHY			1911		
LAB USE ONLY					
DELIVER EDEX			igalijaskijoja:		<u>e</u> s jarrivaleonioe yyinis
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	<u> </u>			/ ~//	Ad Graphics Printing 570-888-9685



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 legik 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, ident er and identify the d	t ify Date F	DEP U Received		NLÝ neral Notes
		rence 287.54						
Date P	repare		ebruary 11, 2011			~~* #		
_			CLIENT (GENERATOR	OF THE WASTE) IN	IFORMATI	ON		
	any Nar	me ergy USA Inc.						
		y, Name of Parent Com	pany			EPA G	Sener	ator ID#
		ergy Inc.				N/A		
		iling Address Line 1 d Place	Co	ompany Mailing Addres	ss Line 2			
		dress Last Line – City	State	Zip+4	Phone			Ext
Warre			PA	15086	(724) 81	4-530	0	
	-	ntact Last Name	First Name	Mi		Suffix		
Brown Munici			<u>Dina</u>	County				
Warre				Allegheny				
	ct Phon		Contact Email Address					
	814-53		dybrown@talismanusa.c				7	52 N
			ny Mailing Address (noted a neration and storage. Drill o		ıring natural ga		Yes	⊠ No erations at
			cated at 1247 Fallbrook Road					
	ers on s		County Time		04-4-			
Munici	ранту	Ward	County Tioga SECTION B. WAST	E DESCRIPTION	State		PA	
Resid	dual	Resid	୍ଷ ପ୍ରଥମ ପ୍ରଥମ ପ୍ରଥମ । lual Waste	E DESCRIBITION	Unit of			Time
Waste			Description	Amount	Measure			Frame
810								
		Drill cuttings (oil and	gas)	4,712	□ cu yd □	gal	$\overline{}$	One Time
		Drill cuttings (oil and	· ,		□ cu yd □ □ lb			One Time
a.	pH Ra		1. GENERAL P					One Time
a. b.			1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909	ROPERTIES (based on analyses or ki thod 9095) 95)				One Time
	Physic	nge 6. cal State	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909) Gas (ambient temperate	ROPERTIES (based on analyses or ki thod 9095) 95)	□ lb ☑ nowledge)	ton	etrole	
b.	Physic	nge 6.	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate	ROPERTIES (based on analyses or kithod 9095) 95) ture & pressure) Odo	□ lb ⊠ nowledge) r Earthy/S	ton	etrole	
b.	Physic	nge 6. cal State	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate Color Greyish Black	ROPERTIES (based on analyses or kill thod 9095) (b5) ture & pressure) Odo Phases of Separation	□ lb □ nowledge) r Earthy/S One	ight P	etrole	
b.	Physic	nge 6. cal State	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of se	ROPERTIES (based on analyses or kithod 9095) (bis pressure) Odo Phases of Separation Eparation. Soil and Ro	□ lb □ nowledge) r Earthy/S One ck Fragments	ight P	etrole	
b.	Physic Physic	nge 6. cal State cal Appearance sults of a detailed cher	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate Color Greyish Black Number of Solid or Liquid	ROPERTIES (based on analyses or kithod 9095) (b5) (bure & pressure) Odo Phases of Separation eparation. Soil and Ro	nowledge) r Earthy/S One ck Fragments	ton	etrole	
b. с. а.	Physic Physic The re	nge 6. cal State cal Appearance sults of a detailed cheretions, is attached.	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS mical characterization of the	ROPERTIES (based on analyses or kithod 9095) (bithod 9095)	nowledge) r Earthy/S One ck Fragments	light P	⁄es	eum No
b. с.	Physic Physic The re instruct A deta	nge 6. cal State cal Appearance sults of a detailed cheretions, is attached. illed description of the pality assurance/quality	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate Color Greyish Black Number of Solid or Liquid Describe each phase of se	ROPERTIES (based on analyses or kithod 9095) (bure & pressure) Odo I Phases of Separation eparation. Soil and Ro (sis ATTACHMENTS) waste, as described in	nowledge) r Earthy/S One ck Fragments	light P		eum
b. c. a. b.	Physic Physic The re instruc A deta The qu	nge 6. cal State cal Appearance sults of a detailed cheretions, is attached. illed description of the pality assurance/quality ed.	1. GENERAL P 17 to 7.50 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperate Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS mical characterization of the waste sampling method is a	ROPERTIES (based on analyses or kithod 9095) (bure & pressure) Odo I Phases of Separation eparation. Soil and Ro els ATTACHMENTS waste, as described in ttached. yed by the laboratory(ie	nowledge) r Earthy/S One ck Fragments	light P	/es	eum No No

a. Solid waste permit number(s) for processing or disposal facility being utilized. 9-0232-00003 b. Facility Name			PROCESS DESCRIPTION &							
as specified in the instructions, is attached. c. If portions of the information submitted are confidential, the substantiation for	a.	the waste, as specified in the	instructions, is attached.	•		⊠ 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) for processing or disposal facility being utilized. 8-0728-0004 b. Facility Name	b.	as specified in the instructions, is attached.								
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.				n 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		SECTIO		ANT TO SELECT AND THE RESIDENCE AND AN ARRANGE AND AN ARRANGE AND						
a. Solid waste permit number(s) for processing or disposal facility being utilized. 8-0728-00004 b. Facility Name										
b. Facility Name	The ar	` <u> </u>				f necessary.				
Address Line 1 Address City State ZIP 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. 3,251 Gourd Gounty Chemung Carla Canjar 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. 3,251 Gourd Gound G	a.		for processing or disposa	l facility being utili	ized.					
Address Line 1 Address City State ZIP Municipality Elmira County Chemung C. Facility Contact Name Phone Carla Canjar Title Environmental Manager Phone C585) 797-5941 Email Address Carla.canjar@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 3,251	b.	Facility Name	Chemung County Landf	ill						
Address City State ZIP Municipality Elmira County Chemung C. Facility Contact Name Title Phone Carla Canjar Environmental Manager Phone Environmental Manager Title Phone Title Tou yd gal lb don (check one) a. Solid waste permit number(s) for processing or disposal facility being utilized. 9-0232-00003 b. Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Angelica NY 14709 Municipality Angelica County Allegany c. Facility Contact Name Title Phone (585) 466-7271 Email Address larry.shilling@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330		Address Line 1								
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. 3,251		Address Line 1								
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. 3,251		Address City State ZIP	Elmira	NY	14903					
Title Phone		Municipality	Elmira	County	Chemung					
d. Volume of waste shipped to processing or disposal facility in the previous year. 3,251	c.	Facility Contact Name	Carla Canjar							
d. Volume of waste shipped to processing or disposal facility in the previous year. 3,251		Title								
a. Solid waste permit number(s) for processing or disposal facility being utilized. 9-0232-00003 b. Facility Name		Phone	(585) 797-5941	Email Address	carla.canjar@cas	ella.com	W-11%			
b. Facility Name	d.	3,251	cu yd] lb 🔲 ton	(check one)					
Address Line 1 Address City State ZIP Angelica Angelica Angelica County Allegany C. Facility Contact Name Title Phone County C	a.		for processing or disposa	I facility being utili	zed.					
Address Line 1 Address City State ZIP Municipality Angelica Angelica County Allegany C. Facility Contact Name Title Phone (585) 466-7271 Email Address larry.shilling@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330 cu yd gal lb ton (check one) 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.	b.	Facility Name	Hyland Landfill							
Address City State ZIP Municipality Angelica Angelica County Allegany C. Facility Contact Name Title Phone (585) 466-7271 Email Address larry.shilling@casella.com County Allegany Larry Shilling Email Address larry.shilling@casella.com County Email Addre		Address Line 1	6653 Herdman Road							
Municipality Angelica County Allegany C. Facility Contact Name Title Phone (585) 466-7271 Email Address Iarry.shilling@casella.com County Allegany Larry Shilling Email Address Iarry.shilling@casella.com County Email Address Iarry.shilli			···········							
c. Facility Contact Name Title Phone (585) 466-7271 Email Address larry.shilling@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330						·				
Title Phone (585) 466-7271 Email Address larry.shilling@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330 cu yd gal lb ton (check one) 2. BENEFICIAL 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 used in the previous year.		Municipality	Angelica	County	Allegany					
Phone (585) 466-7271 Email Address larry.shilling@casella.com d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330 □ u yd □ gal □ b □ ton (check one) 2. Beneficial 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 used in the previous year.	C.	-	Larry Shilling							
d. Volume of waste shipped to processing or disposal facility in the previous year. 1,330										
1,330		Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com				
2. BENEFICIAL USE a. Has the waste been approved for beneficial use?	d.	Volume of waste shipped to pe	ocessing or disposal faci	lity in the previous	year.					
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.		1,330	cu yd 🔲 gal 📋] lb 🔀 ton	(check one)					
If "Yes", list the general permit number or approval number. b. Volume of waste beneficially used in the previous year.			2. Benefic	IAL USE						
b. Volume of waste beneficially used in the previous year.	a.	Has the waste been approved	for beneficial use?			Yes	⊠ No			
b. Volume of waste beneficially used in the previous year.		If "Yes", list the general permi	t number or approval num	ber.						
0	b.				***************************************					
		0	cu yd gal] lb	(check one)					

a. A detailed description of the manufacturing and/or pollution control processes producing Ves No he 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 No No Ac 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 McKean County Landfill Address Line 1 Addre			PROCESS DESCRIPTION &								
as specified in the instructions, is attached. c. If portions of the information submitted are confidential, the substantiation for	a.			ition control proces	sses producing	Yes	☐ No				
a confidentiality claim, as described in the instructions, is attached. SECTION C. MANAGEMENT OF RESIDUAL WASTE	b.			rol processes produ	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. 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 being utilized. b. Facility Name Address Line 1 Address manderfeld@gmail.com d. Volume of waste shipped to processing or disposal facility in the previous year. 131	C.										
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		SECTIO									
b. Facility Name 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 in the previous year. 131	The ar	ea below (ad.) will accommod				if necessary.					
Address Line 1 Address City State ZIP Municipality C. Facility Contact Name Title Phone Mount of waste shipped to processing or disposal facility in the previous year. 131	a.		for processing or disposa	l facility being utiliz	zed.						
Address Line 1 Address City State ZIP Municipality C. Facility Contact Name Title Phone Mike Manderfeld Mike Manderfeld Mike Manderfeld Title Phone Title Address Line 1 Address Line 1 Address City State ZIP Municipality County C. Facility Contact Name Title Phone Title Phone Email Address d. Volume of waste shipped to processing or disposal facility in the previous year. Cu yd gal ho hon (check one) Z. BENEFICIAL USE a. Has the waste been approved for beneficial use? I "Yes", list the general permit number or approval number. b. Volume of waste beneficially used in the previous year.	b.	Facility Name	McKean County Landfill								
Address City State ZIP Municipality C. Facility Contact Name Title Phone Mike Manderfeld Title Phone (814) 778-9931			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. 131											
C. Facility Contact Name Title Phone		-									
Title Phone (814) 778-9931		· _ ·		County	McKean						
Phone (814) 778-9931	C.		Mike Manderfeld								
d. Volume of waste shipped to processing or disposal facility in the previous year. 131			(014) 770 0021	Email Address	mandarfold@am	oil com					
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 processing or disposal facility in the previous year. 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.			` '			all.COIII					
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Phone Email Address d. Volume of waste shipped to processing or disposal facility in the previous year. □ cu yd □ gal □ lb □ ton (check one) 2. BENEFICIAL 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 used in the previous year.	c.										
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 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. 	d.	Volume of waste shipped to p	cu yd gal] lb 🔲 ton							
If "Yes", list the general permit number or approval number. b. Volume of waste beneficially used in the previous year.			Autoritation and the second se	IAL USE		,					
b. Volume of waste beneficially used in the previous year.	a.					Yes	⊠ No				
				ber.							
	b.	_	· ·] lb ton	(check one)						

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)

Title

Date

Environmental Specialist

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 09123366

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

SEND DATA TO:

NAME: Steve Gridley WO#:

09123366

COMPANY: United Environmental Group ADDRESS:

PAGE: 1 of 3

1738 Parker Road

PO#:

AF74849

Elmira, NY 14905

PWS ID#

PHONE:

(607) 731-0145

TEST REPORT

FAX:

DCNR 58702-017

RECEIVED FOR LAR BY: DLM2

DATE: 12/28/2009 14:40

Page 1 of 3

RECEIVED FOR LAB BY: DLM2	DAT	E: 12/2	8/2009 14:40			Pa	age 1 of 3
SAMPLE: Inv. Cuttings-bin SAMPLED BY: SG	Sar		0: 09123366-001A 0: 12/28/2009 10:00	Compo	osit e		
<u>Test</u> Total Petroleum Hydrocarbons	Result 42000 mg/Kg		Method EPA 1664A	Reg Limit	Analysis Start 12/29/09 13:00	Analysis End 12/29/09	Analyst* DTG-CV
SAMPLE: TCLP Leachate of Inv. Cutt	Ings-bin	Lab ID	0: 09123366-001C	Compo	site		
SAMPLED BY: SG	Sar	nple Time	: 12/29/2009 7:30				
<u>Iest</u> Mercury - TCLP extracted	Result < 0.0008 mg/L		Method EPA 7470A	Reg Limit 0.2	Analysis Start 12/29/09 10:30	Analysis End	Analyst *
Arsenic - TCLP extracted	< 0.500 mg/L		EPA 6010B	5	12/29/09 13:15	12/29/09	RMD-CV
Barium - TCLP extracted	< 10.00 mg/L		EPA 6010B	100	12/29/09 13:15	12/29/09	RMD-CV
Cadmium - TCLP extracted	< 0.100 mg/L		EPA 6010B	1	12/29/09 13:15	12/29/09	RMD-CV
Chromium - TCLP extracted	< 0.500 mg/L		EPA 6010B	5	12/29/09 13:15	12/29/09	RMD-CV
Copper - TCLP extracted	0.362 mg/L		EPA 6010B		12/29/09 13:15	12/29/09	RMD-CV
Lead - TCLP extracted	0.938 mg/L		EPA 6010B	5	12/29/09 13:15	12/29/09	RMD-CV
Nickel - TCLP extracted	< 0.100 mg/L	Q	EPA 6010B		12/29/09 13:15	12/29/09	RMD-CV
Selenium - TCLP extracted	< 0.500 mg/L		EPA 6010B	1	12/29/09 13:15	12/29/09	RMD-CV
Silver - TCLP extracted	< 0.100 mg/L	Q	EPA 6010B	5	12/29/09 13:15	12/29/09	RMD-CV
Zinc - TCLP extracted	0.268 mg/L		EPA 6010B		12/29/09 13:15	12/29/09	RMD-CV
SAMPLE: Inv. Cuttings-bin		Lab ID	: 09123366-001D	Compo	site		
SAMPLED BY: SG	San	nple Time	12/28/2009 10:00	Req			
<u>Test</u>	Result		Method	Limit	Analysis Start	Analysis End	Analyst *
Moisture	24.4 %	1	MOISTURE CALC.		12/29/09 10:15	12/30/09	KAL-SA
рН	6.79@ 18.2°C		EPA 9045C		12/30/09 10:15	12/30/09	KAL-SA
% Solids	75.58 % Wght.		SM2540B		12/29/09 10:15	12/30/09	KAL-SA

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
- Q Due to matrix effects, not all quality control parameters met acceptance criteria
- Spike Recovery outside accepted recovery limits

12/30/2009 DATE: MANAGER

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 09123366

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

SEND DATA TO:

NAME:

Steve Gridley

COMPANY: United Environmental Group

ADDRESS:

1738 Parker Road

Elmira, NY 14905

WO#:

09123366

PAGE:

2 of 3

PO#:

AF74849

PHONE:

(607) 731-0145

TEST REPORT

PWS ID#

12/29/09 8:24

100

12/29/09 CMD-SA

FAX:

DCNR 58702-017

RECEIVED FOR LAB BY: DLM2

DATE: 12/28/2009 14:40

Page 2 of 3

SAMPLE: TCLP Leachate of Inv. Cuttin	gs-bin	Lab ID: 09123366-001E	Compo	site		
SAMPLED BY: SG	Sa	imple Time: 12/29/2009 7:30				
Test	Result	Method	<u>Rea</u> Limit	Analysis Start	Analysis End	
Pyridine - TCLP extracted	< 0.020 mg/L	EPA 8270C	5	12/29/09 9:00	12/29/09	ASC-CV
Hexachloroethane - TCLP extracted	< 0.020 mg/L	Q EPA 8270C	3	12/29/09 9:00	12/29/09	ASC-CV
Total Cresol - TCLP extracted	< 0.020 mg/L	EPA 8270C	200	12/29/09 9:00	12/29/09	ASC-CV
Nitrobenzene - TCLP extracted	< 0.020 mg/L	EPA 8270C	2	12/29/09 9:00	12/29/09	ASC-CV
Hexachlorobutadiene - TCLP extracted	< 0.020 mg/L	EPA 8270C	0.5	12/29/09 9:00	12/29/09	ASC-CV
2,4,6-Trichlorophenol - TCLP extracted	< 0.020 mg/L	ÉPA 8270C	2	12/29/09 9:00	12/29/09	ASC-CV
2,4,5-Trichlorophenol - TCLP extracted	< 0.020 mg/L	EPA 8270C	400	12/29/09 9:00	12/29/09	ASC-CV
2,4-Dinitrotoluene - TCLP extracted	< 0.020 mg/L	EPA 8270C	0.13	12/29/09 9:00	12/29/09	ASC-CV
Hexachlorobenzene - TCLP extracted	< 0.020 mg/L	EPA 8270C	0.13	12/29/09 9:00	12/29/09	ASC-CV
Pentachlorophenol - TCLP extracted	< 0.050 mg/L	EPA 8270C	100	12/29/09 9;00	12/29/09	ASC-CV
1,4-Dicholorobenzene	< 0.010 mg/L	EPA 8270C		12/29/09 9:00	12/29/09	ASC-CV
Sample Note: Due to matrix effects, no	t all quality control	parameters met acceptance	criteria			
SAMPLE: ZHE Extract of Inv. Cuttings-t	oin	Lab ID: 09123366-001F	Compa	site	•	to the state of th
SAMPLED BY: SG	Sa	mple Time: 12/29/2009 7:30				
<u>Test</u>	Result	Method	<u>Reg</u> Limit	Analysis Start	Analysis End	Analyst *
Benzene	< 0.02 mg/L	EPA 8260B	0.5	12/29/09 8:24	12/29/09	CMD-SA
2-Butanone	< 0.20 mg/L	EPA 8260B	200	12/29/09 8:24	12/29/09	CMD-SA
Carbon tetrachloride	< 0.02 mg/L	EPA 8260B	0.5	12/29/09 8:24	12/29/09	CMD-SA

REMARKS:

Chlorobenzene

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

< 0.02 mg/L

- * CV = Benchmark Analytics, Inc. Center Valley, PA; SA = Benchmark Analytics, Inc. Sayre, PA
- Due to matrix effects, not all quality control parameters met acceptance criteria
- Spike Recovery outside accepted recovery limits

MANAGER	Challe	DATE:	12/30/2009

EPA 8260B

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

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3 of 3

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TEST REPORT

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DCNR 58702-017

CEIVED FOR LAB BY: DLM2	DATE: 12/28/2009 14:40			Page 3 of 3			
Chloroform	< 0.02 mg/L		EPA 8260B	6	12/29/09 8:24	12/29/09	CMD-SA
1,4-Dichlorobenzene	< 0.02 mg/L		EPA 8260B	7.5	12/29/09 8:24	12/29/09	CMD-SA
1,2-Dichloroethane	< 0.02 mg/L		EPA 8260B	0.5	12/29/09 8:24	12/29/09	CMD-SA
1,1-Dichloroethene	< 0.02 mg/L		EPA 8260B	0.7	12/29/09 8:24	12/29/09	CMD-SA
Trichloroethene	< 0.02 mg/L		EPA 8260B	0.5	12/29/09 8:24	12/29/09	CMD-SA
Tetrachloroethene	< 0.02 mg/L		EPA 8260B	0.7	12/29/09 8:24	12/29/09	CMD-SA
Vinyl chloride	< 0.02 mg/L	s	EPA 8260B	0.2	12/29/09 8:24	12/29/09	CMD-SA

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

- Due to matrix effects, not all quality control parameters met acceptance criteria
- Spike Recovery outside accepted recovery limits

MANAGER	Chroy

DATE:

12/30/2009

ANALYSIS TO BE PERFORMED (PER CONTAINER) ANALYSIS TO BE PERFORMED (PER CONTAINER) ANALYSIS TO BE PERFORMED (PER CONTAINER) LABI TOLP & MCRA Melals + Cu, Zn, NC TOLP ANALYSIS TO BE PERFORMED (PER CONTAINER) ANALYSIS TO BE PERFORME	ED?
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DE DEONIZEO WATER DE DI DISTILLEO WATER PERSONAL OTHER VISUAL FYES, PLEASE ATTACH REQUIRED AS A SCORBIC ACID AS A SCORBI	REMENTS
EASCH HOUSE IN COOLER WITH ICE BILL TO: By Coma BILL TO: By Coma WITH ICE BILL TO: By Coma An All Month Solid And Associate Acid Notice And Amondous Childride Sample Point Sample Point No. I your sample(s). An Incomplete chain of custody may delay the processing of your sample(s). An All YSIS TO BE PERFORMED (FER CONTAINER) ANALYSIS TO BE PERFORMED (FER CONTAINER) LABU ANALYSIS TO BE PERFORMED (FER CONTAINER) ANALYSIS TO BE PERFORMED (FER CONTAINER) ANALYSIS TO BE PERFORMED (FER CONTAINER) TOLP & RICELA Molady + Cu, Zu, NIC DO NOTE: ANALYSIS TO BE PERFORMED (FER CONTAINER) LABU ANALYSIS TO BE PERFORMED (FER CONTAINER) TOLP & RICELA Molady + Cu, Zu, NIC DO NOTE: ANALYSIS TO BE PERFORMED (FER CONTAINER) ANALYSIS TO BE PERFORMED	
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7 C-TCLP Metalo + Cu Ni 2n B D. 26 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 4 Moisture per Connie 7 C-TCLP Metalo + Cu Ni 2n 8 D. 26 Moisture per Connie 9 Moisture per Connie 1 Moisture per C	
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6 BT Sample 7 C-TCLP Metalo + Cu Ni 2n 8 D. 26 Morature, pH 48 Hr. Reegh.	- 1i
7 C-TCLP Metalo + Cu Ni Zn 48 Hr. Reegh.	<u>, , , , , , , , , , , , , , , , , , , </u>
18 D. 2 Morature pH 48 Mr. Keegh.	180 50
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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 space od 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 Da	DEP L te Receive		DNLY eneral Notes
		rence 287.54						
Date P	repare		bruary 11, 2011					
_		SECTION A.	CLIENT (GENERATOR	R OF THE WASTE) II	NFORMA	TION		
	any Nai	me ergy USA Inc.						
		y, Name of Parent Com	pany			EPA (Gene	rator ID#
Talism	ıan En	ergy Inc.				N/A		
		iling Address Line 1	С	ompany Mailing Addre	ess Line 2			
		d Place dress Last Line – City	State	Zip+4	Phone			Ext
Warre	-	aress Last Line - City	PA	15086		* 814-530	0	EXI
		ntact Last Name	First Name	MI		Suffix		
Brown			Dina					
Munici Warre				County				
	t Phon	e Ext	Contact Email Address	Allegheny				***************************************
	814-53		dybrown@talismanusa.c	com				
Is the	waste g	enerated at the Compa	ny Mailing Address (noted a	above)?	,		Yes	⊠ No
			neration and storage. Drill o					
			cated at 560 Fallbrook Road,	Ward Township, Tioga	County, PA.	Waste is	store	ed in
		cita 🔾						
Contain Munici	ers on s pality	site. Ward	County Tioga		St	tate	PA	
				E DESCRIPTION			PA	
	pality	Ward Resid	SECTION B. WAST	E DESCRIPTION		tate	PA	Time
Munici	pality dual	Ward Resid	SECTION B. WAST	E DESCRIPTION Amount	Unit Meası	ate of ure	PA	Time Frame
Munici Resi	pality dual	Ward Resid	SECTION B. WAST lual Waste Description		Unit Meası ☐ cu yd	of ure	PA	Frame
Munici Resid Waste	pality dual	Ward Resid Code I	SECTION B. WAST lual Waste Description	Amount 8,246	Unit Meası	ate of ure	PA	
Munici Resid Waste	dual Code pH Ra	Ward Resid Code I Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P	Amount 8,246 ROPERTIES (based on analyses or lease)	Unit Meast	of ure	PA	Frame
Resid Waste 810	dual Code pH Ra	Ward Resid Code I Drill cuttings (oil and	SECTION B. WAST ual Waste Description gas) 1. GENERAL P	Amount 8,246 ROPERTIES (based on analyses or lethod 9095) 95)	Unit Meast	of ure	PA	Frame
Resid Waste 810	pality dual Code pH Ra Physic	Ward Resid Code I Drill cuttings (oil and	SECTION B. WAST lual Waste Description gas) 1. GENERAL P 94 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black	Amount 8,246 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure)	Unit Measi Cu yd Ib Cnowledge)	of ure		One Time
Residuate 810	pality dual Code pH Ra Physic	Ward Resid Code I Drill cuttings (oil and and ange 9.9	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 94 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperal Color Greyish Black Number of Solid or Liquid	Amount 8,246 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Phases of Separation	Unit Measu Cu yd Ib Cnowledge) Dr Earthy One	of ure gal \(\text{\tiny{\text{\tiny{\text{\tiny{\text{\tiny{\tiny{\tiny{\text{\tinx{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\texicl{\text{\texi}}\tiny{\text{\text{\text{\text{\text{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tert{\texicl{\texicr{\texi}\tiny{\texit{\texi}\tiny{\tininter{\texicr{\terichter{\tert{\tinin}}\tinttit{\texitit}}\\tininity}}\		One Time
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Residuate 810 a. b. c.	pH Ra Physic The re instruct A deta	Ward Resid Code I Drill cuttings (oil and and ange 9.9 cal State cal Appearance sults of a detailed chemications, is attached. iiled description of the validity assurance/quality	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 94 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperated of Solid or Liquid Describe each phase of second second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid or Liquid Describe each phase of second or Solid Or Liquid Describe each phase of	Amount 8,246 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro sis Attachments waste, as described intached.	Unit Measi Cu yd Ib Cnowledge) Pr Earthy One Ock Fragme	of ure gal X ton	Petrol	One Time eum No
Residuate 810 a. b. c. a. b.	pH Ra Physic The re instruct A deta The quattach	Resid Code I Drill cuttings (oil and and ange 9.9 cal State cal Appearance sults of a detailed chemictions, is attached. alled description of the vality assurance/quality ed.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P 4 to Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperar 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 8,246 ROPERTIES (based on analyses or lethod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Ro sis ATTACHMENTS waste, as described intached. yed by the laboratory(in	Unit Measi Cu yd Ib Cnowledge) Pr Earthy One Ock Fragme	of ure gal X ton	Petrol	eum No

		PROCESS DESCRIPTION				(1)
a.	A detailed description of the the waste, as specified in the			esses producing	Yes	☐ No
	<u> </u>					
b.	A schematic of the manufactor as specified in the instruction		ntrol processes pro	ducing the waste,	Yes	☐ No
	•	•				—
c.	If portions of the information a confidentiality claim, as des	submitted are confident	ial, the substantiatio	n for	☐ No	⊠ N/A
	-			141 14/4075		
	SEÇIJO	ON C. MANAGEME	and the Particular and Control of the Control of th	est entre de la companya de la comp	C 40 T 1 ST 45 T	
The or	ea below (ad.) will accommod	1. PROCESSING OR D			if neasenant	<u> </u>
	· ·				ii necessary.	
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispo	sal facility being util	izea.		
b.	Facility Name	Hakes C&D Landfill				
	Address Line 1	4376 Manning Ridge	Road			*****
ļ	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	ella.com	
d.	Volume of waste shipped to p		cility in the previous	s vear.		
	3,549	cu yd 🔲 gal	☐ lb ton		1	
а.	Solid waste permit number(s)	for processing or dispo	sal facility being util	ized.		
	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	(TOT) (TOT)				
	Phone	(585) 466-7271	Email Address	larry.shilling@ca	sella.com	
d.	Volume of waste shipped to p	- <u>-</u> -				
	3,538	cu yd gal	☐ lb 🖂 ton	ı (check one)		
			FICIAL USE			
a.	Has the waste been approved				Yes	⊠ No
	If "Yes", list the general perm					
b.	Volume of waste beneficially			/ - \		
	0 📙	cu yd 🔲 gal	☐ Ib ☐ ton	(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 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	
	SECTI	ĐN C. MANAGEŇ	ENT OF RESIDU	JAL WASTE			
	in Property Andrews		DISPOSAL FACILITY(II				
The ar	ea below (ad.) will accommo				if necessary		
a.	Solid waste permit number(s 8-0728-00004	for processing or disp	osal facility being uti	lized.			
b.	Facility Name	Chemung County La	ndfill				
l 	Address Line 1	1690 Lake Street				-	
	Address Line 1						
	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@ca	sella.com		
d.	Volume of waste shipped to p	cu yd 🔲 gal	☐ lb 🛚 tor	n (check one)			
a.	Solid waste permit number(s) 100361	for processing or disp	osal facility being util	lized.		:	
b.	Facility Name	McKean County Lan	dfill				
	Address Line 1	19 Ness Lake					
	Address Line 1						
	Address City State ZIP	Kane	PA	16735			
	Municipality	Sergeant Twp	County	McKean	·		
c.	Facility Contact Name	Mike Manderfeld					
	Title					440.0	
	Phone	(814) 778-9931	Email Address	manderfeld@gm	ail.com		
d.	Volume of waste shipped to p						
	209	cu yd 🔲 gal	☐ lb 🖂 tor	n (check one)			
		TANKS TO THE TANKS TO SEE THE TANKS TO THE T	EFICIAL USE		4-5-	-	
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	☐ lb ☐ tor	n (check one)			
	· · · · · · · · · · · · · · · · · · ·			·			

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 Submitted:**

Title

Date

Environmental Specialist

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

Benchmark Analytics, Inc. **Eastern Division**

2566 Pennsylvania Ave. Sayre, PA 18840

Work Order: 10042618

10042618

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

PAGE: PO#:

WO#:

FAX:

PHONE:

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

PWS ID#

DCNR 58702 Pad 18

RECEIVED FOR LAB BY: WCB DATE: 04/19/2010 14:05 Page 1 of 1

AMPLE: Inv. Cuttings	La	ab ID: 10042618-001A	Compo	site		
SAMPLED BY: SG	Sample ¹	Time: 04/19/2010 10:40				
Test	Result	Method	SLOQ	Analysis Start	Analysis End	I Analyst*
Mercury - TCLP extracted	< 0.0008 mg/L	EPA 7470A	0.0008	04/21/10 9:00	04/21/10	RMD-CV
Arsenic - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-CV
Barium - TCLP extracted	< 10.00 mg/L	EPA 6010B	10.00	04/21/10 9:10	04/21/10	GSR-CV
Cadmium - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-CV
Chromium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-CV
Copper - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-CV
Lead - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-CV
Nickel - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-CV
Selenium - TCLP extracted	< 0.500 mg/L	EPA 6010B	0.500	04/21/10 9:10	04/21/10	GSR-CV
Silver - TCLP extracted	< 0.100 mg/L	EPA 6010B	0.100	04/21/10 9:10	04/21/10	GSR-CV
Zinc - TCLP extracted	37.5 mg/L	EPA 6010B	1.00	04/21/10 9:10	04/21/10	GSR-CV
pН	9.94 @ 20.9 °C	EPA 9045D		04/20/10 13:25	04/20/10	SMH-CV
Percent Moisture	31.3 %	SM2540G		04/20/10 9:00	04/21/10	DMB-CV
Total Solids	687000 mg/Kg	SM2540G	5	04/20/10 9:00	04/21/10	DMB-CV
Sample Note: The temperature	of the extraction room exceeded	I the range of 23 ± 2°C				

SAMPLE: Inv. Cuttings SAMPLED BY: SG

Sample Time: 04/19/2010 10:40

Lab ID: 10042618-001B Grab

SLOQ

Test Result Method **Analysis Start** Analysis End Analyst * Total Petroleum Hydrocarbons 69000 mg/kg EPA 9071 04/26/10 11:15 04/26/10

Sample Note: Analysis performed by Microbac - Erie Div.

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. Davis	DATE:	4/27/2010



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	d sheet as Form 26R,	ately completed. All requising provided. If additional space reference the item numberts needs to match the date	ace is necessary, ider er and identify the o	ntify	DEP	USE(O) ed & Ger		;
Genera	al Refe	rence 287.54							
Date P	repare	d/Revised Fel	bruary 11, 2011						
		SECTION A.	CLIENT GENERATOR	OF THE WASTE) I	NFORM	MATION			
	any Nar	me							
		ergy USA Inc.							
		y, Name of Parent Comp	pany				Genera	ator ID#	
		ergy Inc. iling Address Line 1	6	ampany Mailing Addr	on Line 1	N/A_			
		d Place	C C	ompany Mailing Addre	ess Line 2	2			
		dress Last Line – City	State	Zip+4	Pho	one		Ext	
Warre		,	PA	15086		4) 814-530	00		
Compa	ıny Coı	ntact Last Name	First Name	MI	,	Suffix	X		
Brown			Dina						
Munici				County					
Warre		ie Ext	Contact Email Address	Allegheny					
(724) 8			dybrown@talismanusa.c	om					
			ny Mailing Address (noted a			П	Yes	⊠ No	
			neration and storage. Drill o		uring natu				
th€	(03-01	<u>13) well pad site located a</u>	t 1456 Fairbanks Road, Colu						
contain	ers on s	site							
			County Drade	al		Ctoto	D 4		
Munici		Columbia	County Bradfo		1	State	PA		
Munici	pality	Columbia	SECTION B. WAST	ord E DESCRIPTION	\$5.000 \$100 \$100 \$100 \$100 \$100 \$100 \$100		PA	T:	
Munici Resid	pality dual	Columbia Residi	SECTION B. WAST	E DESCRIPTION	Ur	nit of	PA_	Time Frame	
Munici Resid Waste	pality dual	Columbia Residi Code D	SECTION B. WAST ual Waste Description	E DESCRIPTION Amount	Ur	nit of asure	PA	Time Frame	
Munici Resid	pality dual	Columbia Residi	SECTION B. WAST ual Waste bescription	E DESCRIPTION Amount 7,456	Ur Mea	nit of asure	PA)
Munici Resid Waste	dual Code	Columbia Residi Code D Drill cuttings (oil and c	SECTION B. WAST ual Waste lescription gas) 1. GENERAL P	Amount 7,456 ROPERTIES	Ur Me: cu yd	nit of asure gal	PA	Frame)
Resid Waste 810	dual Code pH Ra	Columbia Residi Code D Drill cuttings (oil and g	SECTION B. WAST ual Waste lescription gas) 1. GENERAL P to 11.3	Amount 7,456 ROPERTIES (based on analyses or	Ur Me: cu yd	nit of asure gal	PA	Frame)
Resid Waste 810	dual Code pH Ra	Columbia Residi Code D Drill cuttings (oil and c	SECTION B. WAST ual Waste lescription gas) 1. GENERAL P	Amount 7,456 ROPERTIES (based on analyses or thod 9095) 95)	Ur Me: cu yd	nit of asure gal	PA	Frame	9
Resid Waste 810	pality dual Code pH Ra Physic	Columbia Residi Code D Drill cuttings (oil and g	SECTION B. WAST ual Waste lescription gas) 1. GENERAL P to 11.3 Liquid Waste (EPA Met Solid (EPA Method 908 Gas (ambient temperat Color Greyish Black	Amount 7,456 ROPERTIES (based on analyses or lithod 9095) 95) ture & pressure) Ode	Ur Me: □ cu yd □ lb knowledge	nit of asure gal		Frame One Time	9
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Columbia Residu Code D Drill cuttings (oil and g nge 8.9 cal State	SECTION B. WAST ual Waste description gas) 1. GENERAL P 1. 11.3 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid	Amount 7,456 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd	Ur Me: Cu yd Ib knowledge	nit of asure ☐ gal ☑ ton ⊖ thy/Slight F		Frame One Time)
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Columbia Residu Code D Drill cuttings (oil and g nge 8.9 cal State	SECTION B. WAST ual Waste lescription gas) 1. GENERAL P to 11.3 Liquid Waste (EPA Met Solid (EPA Method 908 Gas (ambient temperat Color Greyish Black	Amount 7,456 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd	Ur Me: Cu yd Ib knowledge	nit of asure ☐ gal ☑ ton ⊖ thy/Slight F		Frame One Time	
Resid Waste 810 a. b.	pality dual Code pH Ra Physic	Columbia Residu Code D Drill cuttings (oil and g nge 8.9 cal State	SECTION B. WAST ual Waste description gas) 1. GENERAL P 1. 1.3 Liquid Waste (EPA Me Solid (EPA Method 905 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so	Amount 7,456 ROPERTIES (based on analyses or thod 9095) (bit & pressure) Odd I Phases of Separation eparation. Soil and Re	Ur Me: Cu yd Ib knowledge	nit of asure ☐ gal ☑ ton ⊖ thy/Slight F		Frame One Time)
Resid Waste 810 a. b.	pality dual Code pH Ra Physic The re	Columbia Residi Code D Drill cuttings (oil and g nge 8.9 cal State cal Appearance	SECTION B. WAST ual Waste description gas) 1. GENERAL P 1. 11.3 Liquid Waste (EPA Me Solid (EPA Method 909 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid	Amount 7,456 ROPERTIES (based on analyses or lithod 9095) (bit) (ture & pressure) Odd I Phases of Separation eparation. Soil and Resister ATTACHMENTS	Ur Me: □ cu yd □ lb knowledge	alt of asure ☐ gal ☑ ton e) thy/Slight Feengs		Frame One Time	
Resid Waste 810	pality dual Code pH Ra Physic Physic The re instruc	Columbia Residi Code D Drill cuttings (oil and g nge 8.9 cal State cal Appearance sults of a detailed chemotions, is attached.	SECTION B. WAST ual Waste pescription gas) 1. GENERAL P. 1. J. GENERAL P. 2. Liquid Waste (EPA Me Solid (EPA Method 905 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS lical characterization of the	Amount 7,456 ROPERTIES (based on analyses or lithod 9095) 25) Sture & pressure) Odd I Phases of Separation eparation. Soil and Resistance in Separation in Separation waste, as described in Separation in Separati	Ur Me: □ cu yd □ lb knowledge	asure gal Ston thy/Slight Feenags	Petrole	One Time	
Resid Waste 810 a. b.	pH Ra Physic The re instruct A deta	Columbia Residi Code D Drill cuttings (oil and g nge 8.9 cal State cal Appearance esults of a detailed chemictions, is attached. iiled description of the w	SECTION B. WAST ual Waste Description gas) 1. GENERAL P. 1. J. GENERAL P. 2. Liquid Waste (EPA Me Solid (EPA Method 905 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS alcal characterization of the	Amount 7,456 ROPERTIES (based on analyses or lethod 9095) (bt) (ture & pressure) Odd I Phases of Separation eparation. Soil and Residual Separation waste, as described in trached.	Ur Me: □ cu yd □ lb knowledge or Ear □ One ock Cuttii	it of asure gal Ston thy/Slight Feengs	Petrole	One Time	
Resid Waste 810	pH Ra Physic The re instruct A deta	Columbia Residi Code D Drill cuttings (oil and g nge 8.9 cal State cal Appearance esults of a detailed chemictions, is attached. iiled description of the walality assurance/quality	SECTION B. WAST ual Waste pescription gas) 1. GENERAL P. 1. J. GENERAL P. 2. Liquid Waste (EPA Me Solid (EPA Method 905 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS lical characterization of the	Amount 7,456 ROPERTIES (based on analyses or lethod 9095) (bt) (ture & pressure) Odd I Phases of Separation eparation. Soil and Residual Separation waste, as described in trached.	Ur Me: □ cu yd □ lb knowledge or Ear □ One ock Cuttii	it of asure gal Ston thy/Slight Feengs	Petrole	One Time)
Resid Waste 810 a. b.	pH Ra Physic The re instruc A deta The qu attach	Columbia Residi Code D Drill cuttings (oil and g nge 8.9 cal State cal Appearance sults of a detailed chem ctions, is attached. iiled description of the w uality assurance/quality ed.	SECTION B. WAST ual Waste Description gas) 1. GENERAL P. 1. J. GENERAL P. 2. Liquid Waste (EPA Me Solid (EPA Method 905 Gas (ambient temperat Color Greyish Black Number of Solid or Liquid Describe each phase of so 2. CHEMICAL ANALYS alcal characterization of the	Amount 7,456 ROPERTIES (based on analyses or lithod 9095) 35) sture & pressure) Odd. I Phases of Separation eparation. Soil and Resistant Resist	Ur Me: □ cu yd □ lb knowledge or Ear □ One ock Cuttii	it of asure gal Ston thy/Slight Feengs	Petrole	One Time	3

	<u>*</u> 3.	PROCESS DESCRIPTION	& SCHEMATIC ATTA	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, Yes No as specified in the instructions, is attached.						
C.	If portions of the information a confidentiality claim, as des			n for Yes	☐ No	⊠ N/A	
	SECTION	ON C. MANAGEMI	ENT OF RESIDU	JAL WASTE			
12		1. PROCESSING OR [10000000	
The ar	ea below (ad.) will accommod				if necessary	•	
а.	Solid waste permit number(s) 101243	for processing or dispo	sal facility being util	ized.			
b.	Facility Name	Northern Tier Solid W					
	Address Line 1	108 Steam Hollow Ro	ad				
	Address Line 1						
	Address City State ZIP	Troy	PA	16947			
	Municipality	West Burlington Twp	County	Bradford			
C.	Facility Contact Name	Charles Woodward					
	Title	(F70) 007 4477					
	Phone	(570) 297-4177	Email Address	chuckwoodward(g)epix.net 		
d.	Volume of waste shipped to p 3,047	cu yd 📗 gal	☐ lb 🖂 tor	(check one)			
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					
	Address Line 1						
	Address City State ZIP	Angelica	NY	14709			
	Municipality	Angelica	County	Allegany			
C.	Facility Contact Name	Larry Shilling					
	Title	(FOE) 400 7074	F	1 120 0			
	Phone	(585) 466-7271	Email Address	larry.shilling@cas	sella.com		
d.	Volume of waste shipped to p					i	
	2,261	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 to	sed in the previous yea cu yd gal	r.	(check one)			

450999455000045900465		PROCESS DESCRIPTION & SCH			14.7	Jan.		
a.	the waste, as specified in the instructions, is attached.							
b.	A schematic of the manufacturing and/or pollution control processes producing the waste, No as specified in the instructions, is attached.							
c.		submitted are confidential, the scribed in the instructions, is at		or Yes	☐ No	⊠ N/A		
	SECTI	ON C. MANAGEMENT C	F RESIDUA	L WASTE				
		1. PROCESSING OR DISPOSA	Stranger Control Contr	en form Contact in School of Target of School account of the respect of the second State State State State State	1.00			
The ar	ea below (ad.) will accommo	date the identification of two fac			f necessary	•		
a.	8-0728-00004) for processing or disposal faci	lity being utilize	d.				
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 Ema	il Address o	arla.canjar@cas	ella.com			
d.	1,845	processing or disposal facility in cuyd gal B	the previous ye	ear. (check one)		****		
d. a.	1,845		the previous ye	ear. (check one)				
	1,845 Solid waste permit number(s	cu yd gal b	the previous ye	ear. (check one)				
a.	1,845 Solid waste permit number(s	cu yd gal lb) for processing or disposal faci	the previous ye	ear. (check one)				
a.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1	cu yd gal lb for processing or disposal faci McKean County Landfill	the previous ye	ear. (check one) d.				
a.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane	the previous yet ton lity being utilize	(check one) d.				
a.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality	cu yd gal blowddor	the previous yet ton lity being utilize	ear. (check one) d.				
a.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane	the previous yet ton lity being utilize	(check one) d.				
a. b.	1,845 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 lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld	the previous you ton lity being utilize	check one) d. 16735 McKean				
a. b.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema	the previous you ton lity being utilize PA County N	check one) d. 16735 McKean nanderfeld@gma	ail.com			
a. b.	1,845 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 lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema	the previous you ton lity being utilize PA County II Address The previous years	(check one) d. 16735 McKean nanderfeld@gma	ail.com			
a. b.	1,845 Solid waste permit number(s 100361 Facility Name Address Line 1 Address Line 1 Address City State ZIP Municipality Facility Contact Name Title Phone	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema	the previous you ton lity being utilize PA County N	check one) d. 16735 McKean nanderfeld@gma	ail.com			
a. b.	1,845 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 lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema processing or disposal facility in cu yd gal lb	the previous yet ton lity being utilize PA County II Address The previous yet ton	(check one) d. 16735 McKean nanderfeld@gma	ail.com			
a. b.	1,845 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 lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema processing or disposal facility in cu yd gal lb	the previous yet ton lity being utilize PA County II Address The previous yet ton	(check one) d. 16735 McKean nanderfeld@gma	ail.com	No		
a. b. c.	1,845 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 187 Has the waste been approved	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema processing or disposal facility in cu yd gal lb 2. BENEFICIAL*U I for beneficial use? iit number or approval number.	the previous yet ton lity being utilize PA County II Address The previous yet ton	(check one) d. 16735 McKean nanderfeld@gma		No		
a. b. c.	1,845 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 187	cu yd gal lb for processing or disposal faci McKean County Landfill 19 Ness Lane Kane Sergeant Twp Mike Manderfeld (814) 778-9931 Ema processing or disposal facility in cu yd gal lb 2. BENEFICIAL*U I for beneficial use? iit number or approval number.	the previous yet ton lity being utilize PA County II Address The previous yet ton	(check one) d. 16735 McKean nanderfeld@gma		No		

		PROCESS DESCRIPTION	and the control of the second control of the contro	nie wali nomen was wie wie geleg worden. Dan 1995 was 1995 was 1997 was 1997 was 1997 was 1997 was 1997 was 19		
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		ntrol processes proc	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				
The ar	ea below (ad.) will accommod	late the identification of t	wo facilities. Attach	additional sheets i	f necessary.	
a.	Solid waste permit number(s) 8-4630-00010	for processing or dispos	sal facility being util	ized.		
b.	Facility Name	Hakes C&D Landfill				
i	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	(007) 007 0044	P	· · · · ·		
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	iia.com	
d.	Volume of waste shipped to p	rocessing or disposal factor cu yd gal	cility in the previous ☐ lb ton	-		
a.	Solid waste permit number(s) 100955	for processing or dispos	sal facility being utili	zed.		
b.	Facility Name	Wayne Township Land	Hill			
	Address Line 1	264 Landfill Lane				
	Address Line 1					
	Address City State ZIP	McElhattan	PA PA	17748		
	Municipality	Wayne	County	Clinton		
C.	Facility Contact Name	Jay B Alexander				
	Title	General Manager			16111	
	Phone	(570) 769-6977	Email Address	jalex@waynetwpl	andfill.com	
d.	Volume of waste shipped to p					
	17	cu yd gal	☐ lb ton	(check one)		
			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	u sed in the previous year cu yd gal	·. Ib ton	(check one)		

			SECTION	N D. CERTIFICA	TION
Repo obtai know	ort and all attached docu ining the information, I	ments verify the s	and that based that the submitt ubmission of fals	d upon my inquiry of ted information is tr se information herein	iliar with the information submitted in this Annual f those individuals immediately responsible for rue, accurate and complete to the best of my n is made subject to the penalties of 18 Pa. C.S. nd imprisonment.
Chec	k the following, if applical	ole:			
	I certify the information and has not char		red in Section B	3-1, General Propertie	es was supplied to the Department for the year
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
	I certify the information	•	ired in Section B	3-2, Chemical Analysi	is 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			, Process Description	n and Schematic, was supplied to the Department
	Form Submitted:		Form 26R		
			Other (specify)		
	Date Submitted:				
Name	of Responsible Official			Title	Environmental Specialist
Dina Signa	Brown ature		Mor	Date	2/25/11



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

Certificate of Analysis

Project Name:

Marcellus Shale

Workorder:

9822732

Purchase Order:

Workorder ID:

13 Well Pad: Inv Cutting

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

December 18, 2009

Dear Mr. Gridley,

Enclosed are the analytical results for samples received by the laboratory on Friday, December 11, 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.

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

Report ID: 9822732

Anna G Milliken Laboratory Manager

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

SAMPLE SUMMARY

Workorder: 98	Discard Date: 01/01/2010				
Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
9822732001	13 Well Pad: Inv Cutting	Solid	12/7/09 15:57	12/11/09 15:45	Customer
Workorder	Commonts				

Workorder Comments:

Notes

U

- -- 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

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

Sample Duplicate

%Rec Percent Recovery

RPD Relative Percent Difference

Report ID: 9822732 Page 2 of 6



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

ANALYTICAL RESULTS

Workorder: 9822732 13 Well Pad: Inv Cutting

Lab ID: 9822732001 Date Collected: 12/7/2009 15:57

Matrix:

Solid

Sample ID: 13 Well Pad: Inv Cutting

Date Received: 12/11/2009 15:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
TCLP VOLATILE ORGANICS										
Benzene	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
2-Butanone	ND		ug/L	200	SW846 8260B			12/18/09 03:57	DD	Α
Carbon Tetrachloride	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
Chlorobenzene	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
Chloroform	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
1.2-Dichloroethane	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
1.1-Dichloroethene	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
Tetrachloroethene	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
Trichloroethene	ND		ug/L	20.0	SW846 8260B			12/18/09 03:57	DD	Α
Vinyl Chloride	ND		ug/L	20 0	SW846 8260B			12/18/09 03:57	DD	Α
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
1.2-Dichloroethane-d4 (S)	115		%	62-133	SW846 8260B	····································		12/18/09 03:57	DD	Α
4-Bromofluorobenzene (S)	92.7		%	79-114	SW846 8260B			12/18/09 03:57	DD	Ä
Dibromofluoromethane (S)	107		%	78-116	SW846 8260B			12/18/09 03:57	DD	A
Toluene-d8 (S)	111		%	76-127	SW846 8260B			12/18/09 03:57	DD	Ā
rolluerie-do (S)	111		70	70-127	377040 02300			12/16/09 03.37	טט	7
PETROLEUM HC's										
Total Petroleum Hydrocarbons (TPH)	32900		mg/kg	5380	SW846 8015D	12/14/09	TNC	12/15/09 15:24	KJH	A 4
WET CHEMISTRY										
Free Liquids	Negative				SW846 9095			12/14/09 05:35	SDL	Α
Moisture	2.1		%	0.1	SM20-2540 G			12/14/09 02:45	LJF	Α
pH	8.20	1,2	pH Units		SW846 9045D			12/12/09 05:16	SAD	Α
Total Solids	97.9	·	%	0.1	SM20-2540 G			12/14/09 02:45	LJF	Α
TCLP METALS										
Arsenic, Total	ND		mg/L	0.0090	SW846 6010C	12/14/09	MNP	12/14/09 13:19	TED	A2
Barium, Total	1.0		mg/L	0.011	SW846 6010C	12/14/09			TED	A2
Cadmium, Total	ND		mg/L	0.0022	SW846 6010C		MNP		TED	A2
Chromium, Total	ND		mg/L	0.0060	SW846 6010C			12/14/09 13:19		A2
Copper, Total	0.057		mg/L		SW846 6010C		•••		TED	
Lead, Total	0.071		mg/L	0.0067	SW846 6010C	12/14/09	MNP	12/14/09 13:19		A2
Mercury, Total	ND		mg/L	0.0020	SW846 7470A	12/14/09	BLB	12/14/09 17:42	BLB	A3
Nickel, Total	0.053		mg/L	0.0020	SW846 6010C			12/14/09 13:19		
Selenium, Total	ND		mg/L	0.022	SW846 6010C	12/14/09	MNP		TED	A2
Silver, Total	0.0087		mg/L	0.0044	SW846 6010C		MNP		TED	A2
Zinc, Total	0.12		mg/L	3.00	SW846 6010C	121700	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	12/14/09 13:19		
TO D 05341 VOL 4711 50			_							
TCLP SEMI-VOLATILES	110			400	CIN/0 46 0070D	40144100	0140	10/15/00 05 17	000	A 4
mp-Cresol	ND		ug/L	160	SW846 8270D			12/15/09 05:17		A1
o-Cresol	ND		ug/L	160	SW846 8270D			12/15/09 05:17		A1
1,4-Dichlorobenzene	ND		ug/L	60.0	SW846 8270D	-			DRS	A1
2,4-Dinitrotoluene	ND		ug/L	60.0	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1



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

ANALYTICAL RESULTS

Workorder: 9822732 13 Well Pad: Inv Cutting

Lab ID: 9822732001 Date Collected: 12/7/2009 15:57 Date Received: 12/11/2009 15:45 Sample ID: 13 Well Pad: Inv Cutting

Matrix: Solid

9

Parameters	Results	Flag	Units	RDL	Method	Prepared	Ву	Analyzed	Ву	Cntr
Hexachlorobenzene	ND		ug/L	60.0	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Hexachlorobutadiene	ND		ug/L	60.0	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Hexachloroethane	ND		ug/L	60.0	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Nitrobenzene	ND		ug/L	60.0	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Pentachlorophenol	ND		ug/L	320	SW846 8270D	12/14/09	GMG	12/15/09 05.17	DRS	A1
Pyridine	ND		ug/L	160	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
2,4,5-Trichlorophenol	ND		ug/L	160	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
2.4.6-Trichlorophenol	ND		ug/L	160	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Surrogate Recoveries	Results	Flag	Units	Limits	Method	Prepared	Ву	Analyzed	Ву	Cntr
2,4,6-Tribromophenol (S)	61		%	40-125	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Phenol-d5 (S)	26.7		%	13-49	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Terphenyl-d14 (S)	58.3		%	50-122	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
Nitrobenzene-d5 (S)	62.7		%	40-110	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
2-Fluorobiphenyl (S)	53.6		%	50-110	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
2-Fluorophenol (S)	43.9		%	20-75	SW846 8270D	12/14/09	GMG	12/15/09 05:17	DRS	A1
TCLP LEACHATE										
Extraction Fluid Used	1				SW846 1311			12/12/09 06:00	EL	Α
Final pH	5.37		pH_Units		SW846 1311			12/12/09 06:00	EL	А
Preliminary pH after DI water	9.03		pH_Units		SW846 1311			12/12/09 06:00	EL	Α
Preliminary pH after HCI	1.83		pH_Units		SW846 1311			12/12/09 06:00	El.	Α

Sample Comments:

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.

Anna G Milliken

Laboratory Manager

ann mille

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

ANALYTICAL RESULTS QUALIFIERS\FLAGS

Workorder: 9822732 13 Well Pad: Inv Cutting

PARAMETER QUALIFIERS\FLAGS

- [1] The solid pH measured in water was 8.198 at 20.6 degrees C.
- [2] This sample was received at the laboratory after the holding time for pH had expired.

Report ID: 9822732 Page 5 of 6

Copies:

WHITE - ORIGINAL

CHAIN OF CUSTODY! REQUEST FOR ANALYSIS

Corwand by ALSI COC #:



Pg. 1 of

Rev 8/04

ALL SHADED AREAS MUST BE COMPLETED BY THE CLIENT!

ALSI Quot

34 Dogwood Lane - Middletown, PA 17057



34 Dogwood Lane w Middleiown, PA 17057 w 717.94	64.5541 w Fax: 7	17,944,1430			Ş.	MARTER	INSTE	RUCTIO	VS ON T	HE BACK	(
Client Name: Fortuna Energy Inc. (FEI)			Centai	ner Type	Glass	Glass	Glass	Glass	Glass						Receipt	Information (completed by Receiving Lab)
Address: 337 Daniel Zenker Drive			Cornal	ng Site	4-0Z	4-02	4-0z	4-0z	4-0z						Cooler Temp:	O Therm ID: STOTESS 9
Horseheads, New York 14845			Presi	ervedwe	N	N	N	N	×		\neg				o. of Coolers:	
Contact: Sleve Gridley						A	NALYS	ES/ME	HOO R	EQUES'	TED					Custody Seals Present?
Phone#: 607-731-0145			П		f.		Г									(if present) Seals Intact?
Project Name/#: 13 Well Padiciny Cu	llings 7! Sal				a S	l	1				- 1	-				Received on ice?
BILTO: FEI: AFT 75760			1	1	S			₽ P								COCPLabels Complete/Accurate?
Normal-Standard TAT is 10	-12 business	days.	1 1		1 • ~ T		1	Free Liquids (% Moisture)	١	\ \	1					Cost. in Good Cond.7
TAT X Rush-Subject to ALS appro	oval and suic	harges.		ı	A. Ba		1	≩	8,8270							Correct Containers?
Date Required: 5 Day	pproved By:							5	400		1			1		Correct Sample Volumes?
Email? X -Y geowellands@sol.com	& see comm	ente			8.2			F F	8							Correct Preservation?
Fax? -Y No.:				×	1 P (2)	4	١	13	TCLP \$250 8					 		Headspace/Volatiles?
Sample Description/Location	Sample		ō	**Blachix	길품	造	돐	雅	þ						ourier/Tracki	ng #:
(as it will appear on the lab report)	Date	Time	ပ္	蒸		Enter N	umber o	f Conta	iners Pe	r Sample	or Field	Result	s Belov	٧.		Sample/COC Comments
# Eicks13 Well-Inv Cultings Birting	12-727	1357	C	SO	14X	ŧΧ	X.	.Xŧ	AX							Drill Cuttings
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COMMENTS: Also Email Results to:			<u> </u>	<u> </u>	ــــــــــــــــــــــــــــــــــــــ	Ь		٠.,	4			-	-		O#þ	Virginia Carlo Chalo
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phylis@waynetwplandfill.com & kathymstron	ng@epix.net				7	10		./ _	#	-/	7.	116	4	A Sta	INUGIU I	
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Relinquished By / Company Na	ame	Date	١,	Time		Receiv	ed By	Comn	any Nar	ne .	Date	Time	ā	X Sta	AUC	Navy 🔝 🔝 NY
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7		 	+		8						-		PWS		101243	Special
9		\vdash	\dagger		10						1	 		: Fornat Ty		
* G=Grab; C	=Contoosile	"Maró	 - Al≂,	Air: DW		ng Wale	r: GW#	Ground	valer: Of	=O#; OL:	Other I	iquid; S				: Wwwwasteweier

CANARY - CUSTOMER MAILING

PINK · FILE

GOLDENROD - CUSTOMER COPY

Page 6 of 6



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,	ately completed. All requisions provided. If additional specifies reference the item numbers needs to match the date	ace is necessary, ide er and identify the	ntify Date	DEP:USE Received &	E{ONEY General Notes
Genera	al Refer	rence 287.54					
Date P	repared	d/Revised Fel	bruary 11, 2011				
			CLIENT (GENERATOR	R OF THE WASTE) I	NEORMAT	ION	
	any Nar						
		ergy USA Inc. y, Name of Parent Comp				EDA Con	nerator ID#
	-	y, Name of Parent Comp ergy Inc.	oany			N/A	ierator ID#
		iling Address Line 1	C	ompany Mailing Addr	ess Line 2	1477	
		d Place					
		dress Last Line – City	State	Zip+4	Phone		Ext
Warre		ntact Last Name	PA First Name	15086 MI	(724) 8	14-5300 Suffix	
Brown	-	itact Last Name	Dina	IAII		Sullix	
Munici				County			
Warre				Allegheny			
	t Phon		Contact Email Address				
(724) 8	314 <u>-53</u>	21	dybrown@talismanusa.c				N7 N
			ny Mailing Address (noted a neration and storage. Drill o		luring natural g	Yes	- K
the			ated at 2556 East Canton Ro				
contain Munici	ers on s		County Bradfo		Stat		Α
Mumo	panty	Cianville	Joanes Diagra				
			SECTION B WAST	F DESCRIPTION			
Resid	dual	Resid	SECTION B. WAST	E DESCRIPTION	Unit of	·	Time
Resid Waste			SECTION B. WAST ual Waste Description	E DESCRIPTION Amount		I	Time Frame
		Code D	ual Waste Description	and the state of t	Unit of Measure	gal	Frame
Waste			ual Waste Description gas)	Amount 1,298	Unit of Measure	e	
Waste 810	Code	Code D Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P	Amount 1,298 ROPERTIES	Unit of Measure cu yd [gal	Frame
Waste 810	Code pH Ra	Code D Drill cuttings (oil and o	ual Waste Description gas) 1. GENERAL P	Amount 1,298 ROPERTIES (based on analyses or	Unit of Measure cu yd [gal	Frame
Waste 810 a.	Code pH Ra	Code D Drill cuttings (oil and g	ual Waste Description gas) 1. GENERAL P 23 to 10.20	Amount 1,298 ROPERTIES (based on analyses or thod 9095)	Unit of Measure cu yd [gal	Frame
Waste 810 a.	pH Ra Physic	Drill cuttings (oil and game 8.2 cal State	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure)	Unit of Measure cu yd lib knowledge)	e]gal ☑ ton	Frame One Time
Waste 810 a.	pH Ra Physic	Code D Drill cuttings (oil and g	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od	Unit of Measure Cu yd Ib Sknowledge)	gal	Frame One Time
Waste 810 a. b.	pH Ra Physic	Drill cuttings (oil and game 8.2 cal State	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solld or Liquid	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio	Unit of Measure cu yd lb lb knowledge) Earthy/son One	gal gal ton E	Frame One Time
Waste 810 a. b.	pH Ra Physic	Drill cuttings (oil and game 8.2 cal State	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio	Unit of Measure cu yd lb lb knowledge) Earthy/son One	gal gal ton E	Frame One Time
Waste 810 a. b.	pH Ra Physic	Drill cuttings (oil and game 8.2 cal State	ual Waste Description J. GENERAL P 3 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solid or Liquid Describe each phase of s	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and R	Unit of Measure cu yd lb lb knowledge) Earthy/son One	gal gal don E	Frame One Time
Waste 810 a. b.	pH Ra Physic	Drill cuttings (oil and one of the color of	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Me Solid (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solld or Liquid	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Od Phases of Separatio eparation. Soil and R	Unit of Measure Cu yd Ib Senowledge) Dr Earthy/Sen One Ock Fragment	gal gal don E	Frame One Time
### Waste 810 a. b. c.	pH Ra Physic	Drill cuttings (oil and of the color of the	ual Waste Description J. GENERAL P 3 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solld or Liquid Describe each phase of s	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and R	Unit of Measure Cu yd Ib Senowledge) Dr Earthy/Sen One Ock Fragment	gal gal don E	Frame One Time roleum No
Waste 810 a. b. c.	Physical Phy	Drill cuttings (oil and one of the cuttings) The control of the cuttings (oil and of the cuttings) The control of the cutting of the cutting assurance/quality	ual Waste Description gas) 1. GENERAL P 23 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solld or Liquic Describe each phase of s 2. CHEMICAL ANALYS	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separatio eparation. Soil and R SIS ATTACHMENTS waste, as described attached.	Unit of Measure Cu yd Ib Sknowledge) Or Earthy/S One Ock Fragment	gal gal ton C	roleum No No No
810 a. b.	Physical Phy	Drill cuttings (oil and of the color of the	ual Waste Description J. GENERAL P 3 to 10.20 Liquid Waste (EPA Method 90) Gas (ambient tempera Color Greyish Black Number of Solld or Liquid Describe each phase of s 2. CHEMICAL ANALYS sical characterization of the	Amount 1,298 ROPERTIES (based on analyses or thod 9095) 95) ture & pressure) Odd Phases of Separation eparation. Soil and Resident services waste, as described attached. Yed by the laboratory(Unit of Measure Cu yd Ib Sknowledge) Or Earthy/S One Ock Fragment	gal gal don C	roleum No No No No

	3.	PROCESS DESCRIPTION &	SCHEMATIC ATTAC	HMENTS	. 5				
а.	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 des			n for 🗌 Yes	☐ No	⊠ N/A			
	SECTION	ON C. MANAGEME	NT OF RESIDU	AL WASTE					
4.		1. PROCESSING OR D	AND AND AND AND AND PROPERTY OF THE PROPERTY O	Consideration Comments and Constitution of the					
The ar	ea below (ad.) will accommod	ate the identification of to	wo facilities. Attach	additional sheets i	f necessary	•			
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	(007) 007 0044	F						
	Phone	(607) 937-6044 (585) 466-7271	Email Address	joe.boyles@case	lla.com				
d.	Volume of waste shipped to p	rocessing or disposal fac cu yd gal	cility in the previous ☐ Ib ☒ ton						
а.	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	(585) 466-7271	Email Address	larry.shilling@cas	sella.com				
d.	Volume of waste shipped to p 85	cu yd 🔲 gal	☐ lb						
		2. BENEF	ICIAL USE		40.00				
a.	Has the waste been approved				Yes	⊠ No			
	If "Yes", list the general perm								
b.	Volume of waste beneficially 0	u sed in the previous year cu yd gal[lb ton	(check one)		-			

		3. Process Description								
a.	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 informatio a confidentiality claim, as d			n for Yes	☐ No	⊠ N/A				
2	SECT	ION C. MANAGEME	ENT OF RESIDU	IAL WASTE						
		1. Processing or D								
The ar	ea below (ad.) will accomm	odate the identification of	two facilities. Attach	additional sheets	if necessary	•				
a.	Solid waste permit number(8-4630-00010	s) for processing or dispo	sal facility being utili	ized.						
b.	Facility Name	Hakes C&D Landfill								
İ	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	(007) 007 0044								
	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.						
	151	☐ cu yd ☐ gal	☐ lb ton	(check one)						
a.	Solid waste permit number(100945	s) for processing or dispo	sal facility being utili	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	F '1 A I I							
	Phone	(717) 729-5261	Email Address	dhilbert@iswaste	e.com					
d.	Volume of waste shipped to 72	processing or disposal fa cu yd gal	cility in the previous lb							
			FICIAL USE		i versioni.					
a.	Has the waste been approve				☐ Yes	⊠ No				
	If "Yes", list the general per									
			·							
b.	Volume of waste beneficially	y used in the previous yea cu yd gal	ı. □ lb □ ton	(check one)						

	47 7.7 m	3. PROCESS DESCRIPTION								
a.	A detailed description of the the waste, as specified in t	ne manufacturing and/or he instructions, is attach	pollution control proc ed.	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	on submitted are confide described in the instructi	ntial, the substantiations, is attached.	on for 🔲 Yes	☐ No	⊠ N/A				
.	SEC	TION C. MANAGEN								
			R DISPOSAL FACILITY(I							
The ar	ea below (ad.) will accomm	odate the identification of	of two facilities. Attac	h additional sheets	if necessary	7.				
a.	Solid waste permit number 101243	(s) for processing or disp	oosal 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	ager			····				
	Phone	(585) 797-5941	Email Address	carla.canjar@ca	sella.com					
d.										
а.	Solid waste permit number	(s) for processing or disp	oosal facility being uti	lized.						
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	processing or disposal	facility in the previou	s year.						
(COST-2007)		cu yd gal	☐ lb ☐ to	n (check one)						
_		The second second of the particle property and the second	IEFICIAL USE		— v	57				
a.	Has the waste been approv				Yes	⊠ No				
	If "Yes", list the general pe									
b.	Volume of waste beneficial 0	ly used in the previous ye ☐ cu yd ☐ gal	ear. Ib tor	n (check one)						