

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

C00038024
PERMIT NUMBER

001-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

DP-1 SEDI POND TO SCULLION GUL

External Outfall

No Discharge ☒

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****	*****	SU	0	monthly	insitu
00400 10 Effluent Gross Solids, total suspended		*****	*****	*****	6.5 MINIMUM	*****	9 MAXIMUM	SU		Monthly	INSITU
00530 10 Effluent Gross Solids, settleable		*****	*****	*****	*****	31.9 30DA AVG	700 MX 7D AV	mg/L	0	Quarterly	grab
00545 10 Effluent Gross Iron, total (as Fe)		*****	*****	*****	*****	*****	5 DAILY MX	mg/L	0	Quarterly	grab
01045 10 Effluent Gross Oil and grease		*****	*****	*****	*****	3.5 30DA AVG	7 DAILY MX	mg/L	0	Quarterly	grab
03582 10 Effluent Gross Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	10 INST MAX	mg/L	0	Contingent	GRAB
50050 10 Effluent Gross Solids, total dissolved		Req. Mon. 30DA AVG	.78 DAILY MX	Mgal/d	*****	*****	*****	*****	0	Monthly	grab
70295 10 Effluent Gross		*****	*****	*****	*****	Req. Mon. QTR AVG	Req. Mon. DAILY MX	mg/l	0	Quarterly	grab
		*****	*****	*****	*****	*****	*****	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		MM/DD/YYYY	

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24-HR RECIP. EVENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING = I.B.1.A., PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

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ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

001-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

DP-1 SEDI POND TO SCULLION GUL
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	VALUE	VALUE	VALUE	UNITS			
Oil and grease visual	PERMIT REQUIREMENT	*****						0	Quarterly	Visual
84066 10 Effluent Gross		*****	Req. Mon. INST MAX	*****	*****	*****	*****		Quarterly	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
TYPED OR PRINTED		AREA Code NUMBER	MM/DD/YYYY MM/DD/YYYY

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LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

002-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN
RF-1 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****	*****				
00400 1 0 Effluent Gross		*****	*****	*****	6.5 MINIMUM	*****	9 MAXIMUM	SU		Twice Per Month	GRAB
Solids, total suspended		*****	*****	*****	*****	*****	*****				
00530 1 0 Effluent Gross		*****	*****	*****	*****	35 30DA AVG	70 MX 7D AV	mg/L		Twice Per Month	GRAB
Solids, settleable		*****	*****	*****	*****	*****	*****				
00545 1 0 Effluent Gross		*****	*****	*****	*****	*****	5 DAILY MX	ml/L		Twice Per Month	GRAB
Iron, total (as Fe)		*****	*****	*****	*****	*****	*****				
01045 1 0 Effluent Gross		*****	*****	*****	*****	3.5 30DA AVG	7 DAILY MX	mg/L		Twice Per Month	GRAB
Oil and grease		*****	*****	*****	*****	*****	*****				
03582 1 0 Effluent Gross		*****	*****	*****	*****	*****	10 INST MAX	mg/L		Contingent	GRAB
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	*****			
50050 1 0 Effluent Gross		Req. Mon. 30DA AVG	Req. Mon. DAILY MX	Mgal/d	*****	*****	*****	*****		Monthly	INSTAN
Solids, total dissolved		*****	*****	*****	*****	*****	*****				
70295 1 0 Effluent Gross		*****	*****	*****	*****	Req. Mon. QTR AVG	Req. Mon. DAILY MX	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		(970) 675-4322	10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
			NNMMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24HR RECIPIENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING - I.B.1.A., PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.1.7., PG. 14.

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RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

002-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN
RF-1 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY MM/DD/YYYY
07/01/2016 TO 09/30/2016

FROM

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Oil and grease visual 84066 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****			*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	Req. Mon. INST MAX	Y=1;N=0	*****	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA CODE		NUMBER	
		MM/DD/YYYY			
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate. I understand that anyone who furnishes false or misleading information on this report or who omits material or information requested on the report may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations).					

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RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

003-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
RP-2&3 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****				
00400 10 Effluent Gross Solids, total suspended		*****	*****	*****	6.5 MINIMUM	*****	SU		Twice Per Month	GRAB
00530 10 Effluent Gross Solids, settleable		*****	*****	*****	*****	35 30DA AVG	mg/L		Twice Per Month	GRAB
00545 10 Effluent Gross Iron, total (as Fe)		*****	*****	*****	*****	*****	5 DAILY MX		Twice Per Month	GRAB
01045 10 Effluent Gross Oil and grease		*****	*****	*****	*****	3.5 30DA AVG	mg/L		Twice Per Month	GRAB
03582 10 Effluent Gross Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	10 INST MAX		Contingent	GRAB
50050 10 Effluent Gross Solids, total dissolved		*****	*****	*****	*****	*****	*****		Monthly	INSTAN
70295 10 Effluent Gross		*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer		TELEPHONE (970) 675-4322		DATE 10/25/2016
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TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR RECIP. EVENT - SEE LA.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A.,PG. 13. QTRLY SAMPLING INSTRUCTION - I.C.7., PG.14.

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CO0038024
PERMIT NUMBER

003-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
RP-2&3 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Oil and grease visual		*****										
84086 10 Effluent Gross	PERMIT REQUIREMENT	*****	Req. Mon. INST MAX	Y=1;N=0							Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer		(970) 675-4322	10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
			MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

004-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
PP2 TO SCULLION GULCH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE			
BOD, 5-day, 20 deg. C										
00310 1 0 Effluent Gross	7.2 30DA AVG				30 30DA AVG	45 MX 7D AV			Twice Per Month	GRAB
pH										
00400 1 0 Effluent Gross					6.5 MINIMUM	9 MAXIMUM			Twice Per Month	INSITU
Solids, total suspended										
00530 1 0 Effluent Gross					32.5 30DA AVG	70 MX 7D AV			Twice Per Month	GRAB
Solids, settleable										
00545 1 0 Effluent Gross						.5 DAILY MX			Twice Per Month	GRAB
Iron, total (as Fe)										
01045 1 0 Effluent Gross					3.5 30DA AVG	7 DAILY MX			Twice Per Month	GRAB
Oil and grease										
03582 1 0 Effluent Gross						10 INST MAX			Contingent	GRAB
Flow, in conduit or thru treatment plant										
50050 1 0 Effluent Gross	Req. Mon. 30DA AVG	.042 DAILY MX							Monthly	INSTAN

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Warstedt, Environmental Engineer		TELEPHONE (970) 675-4322		DATE 10/25/2016	
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

OIL & GREASE REPORTING-SEE I.B.1.A, PG 13. QRTIRLY SAMPLING INSTRUCTIONS - I.C.7, PG. 14.

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ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

004-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
PP2 TO SCULLION GULCH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Chlorine, total residual	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
50060 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
Solids, total dissolved	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
70295 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
Coliform, fecal general	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
74055 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
Oil and grease visual	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
84066 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA CODE		NUMBER	
		MM/DD/YYYY			
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that I am a duly licensed professional engineer or geologist in the State of Colorado. I am not providing false or misleading information. I am not providing information that is not true and accurate to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for providing false information, including the possibility of fine and imprisonment for knowing violations.					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
OIL & GREASE REPORTING-SEE LB.1.A, PG 13. QRTLY SAMPLING INSTRUCTIONS - LC.7, PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

004-W
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
ACUTE WET TESTING FOR 004A
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	UNITS	VALUE	UNITS			
LC50 Static Renewal 48Hr Acute Daphnia magna TAM3C 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****			
LC50 Static 96Hr Acute Pimephales	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****			
TAN6C 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****		Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****			

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SEE PART LA.2, PG. 8-10, FOR DETAILS OF TEST PROCEDURE. REPORT LC50- STATISTICAL POINT ESTIMATE WHICH IS LETHAL TO 50% OF TEST ORGANISMS, AND ATTACH ACUTE TOXICITY TEST REPORT FORM TO DMR.

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CO0038024
PERMIT NUMBER

005-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
RR-1 LOADOUT TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****	*****				
00400 10 Effluent Gross		*****	*****	*****	6.5 MINIMUM	*****	9 MAXIMUM	SU		Twice Per Month	GRAB
Solids, total suspended		*****	*****	*****	*****	*****	*****				
00530 10 Effluent Gross		*****	*****	*****	*****	35 30DA AVG	70 MX 7D AV	mg/L		Twice Per Month	GRAB
Solids, settleable		*****	*****	*****	*****	*****	*****				
00545 10 Effluent Gross		*****	*****	*****	*****	*****	5 DAILY MX	mL/L		Twice Per Month	GRAB
Iron, total (as Fe)		*****	*****	*****	*****	*****	*****				
01045 10 Effluent Gross		*****	*****	*****	*****	*****	*****				
Oil and grease		*****	*****	*****	*****	3.5 30DA AVG	7 DAILY MX	mg/L		Twice Per Month	GRAB
03582 10 Effluent Gross		*****	*****	*****	*****	*****	*****				
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	10 INST MAX	mg/L		Contingent	GRAB
50050 10 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Solids, total dissolved		*****	*****	*****	*****	*****	*****	*****		Monthly	INSTAN
70295 10 Effluent Gross		*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
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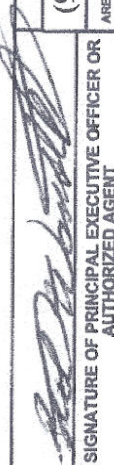
CO0038024	005-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
07/01/2016	09/30/2016
FROM	TO

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
RR-1 LOADOUT TO RED WASH
External Outfall

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	UNITS			
Oil and grease visual		*****			*****	*****	*****	*****	*****			
84066 1 0 Effluent Gross		*****	Req. Mon. INST MAX	Y=1;N=0	*****	*****	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer		(970) 675-4322	10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
			MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR_24HR PRECIP EVENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1., PG. 13. QRTLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

008-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

SS-1 SLOT STORAGE TO RED WASH
External Outfall

No Discharge ☒

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	UNITS			
pH		*****	*****	*****	*****	*****	*****				
00400 1 0 Effluent Gross		*****	*****	*****	6.5 MINIMUM	*****	*****	SU		Twice Per Month	INSITU
Solids, total suspended		*****	*****	*****	*****	*****	*****				
00530 1 0 Effluent Gross		*****	*****	*****	*****	35 30DA AVG	*****	mg/L		Twice Per Month	GRAB
Solids, settleable		*****	*****	*****	*****	*****	*****				
00545 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	5 DAILY MX		Twice Per Month	GRAB
Iron, total (as Fe)		*****	*****	*****	*****	*****	*****				
01045 1 0 Effluent Gross		*****	*****	*****	*****	3 30DA AVG	*****	mg/L		Twice Per Month	GRAB
Oil and grease		*****	*****	*****	*****	*****	*****				
03582 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	10 INST MAX		Contingent	GRAB
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	*****			
50050 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****		Monthly	INSTAN
Solids, total dissolved		*****	*****	*****	*****	*****	*****				
70295 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer		(970) 675-4322	10/25/2016
TYPED OR PRINTED	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR PRECIP. EVENT - SEE LA.1, PG. 3. FOR REQUIREMENTS OIL & GREASE REPORTING - I.B.1.A, PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

008-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN
SS-1 SLOT STORAGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	UNITS			
Oil and grease visual		*****				*****			*****			
84066 10 Effluent Gross		*****	Req. Mon. INST MAX	Y=1,N=0		*****			*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA Code		NUMBER	
		NUMBER		NUMBER	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24HR PRECIP. EVENT - SEE IA.1, PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING - I.B.1.A., PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

009-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN

SS-2 SLOT STORAGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

FROM

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
pH		*****	*****	*****	*****	*****	*****	*****			
00400 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Solids, total suspended		*****	*****	*****	*****	*****	*****	*****			
00530 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Solids, settleable		*****	*****	*****	*****	*****	*****	*****			
00545 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Iron, total (as Fe)		*****	*****	*****	*****	*****	*****	*****			
01045 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Oil and grease		*****	*****	*****	*****	*****	*****	*****			
03582 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	*****			
50050 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			
Solids, total dissolved		*****	*****	*****	*****	*****	*****	*****			
70295 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer		(970) 675-4322	10/25/2016
TYPED OR PRINTED	AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24-HR PRECIP. EVENT - SEE 1A.1, PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING - 1B.1A, PG. 13. QTRLY SAMPLING INSTRUCTIONS - 1C.7, PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

PERMIT NUMBER
C00038024

DISCHARGE NUMBER
009-A

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

SS-2 SLOT STORAGE TO RED WASH

External Outfall

No Discharge ☒

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	UNITS			
Oil and grease visual	*****								*****			
84066 1 0 Effluent Gross	*****		Req. Mon. INST MAX	Y=1;N=0					*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer			(970) 675-4322	10/25/2016
TYPED OR PRINTED			AREA Code	NUMBER
				MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24HR PRECIP. EVENT - SEE IA.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A, PG. 13. QRTIRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

PERMIT NUMBER
C00038024

DISCHARGE NUMBER
025-A

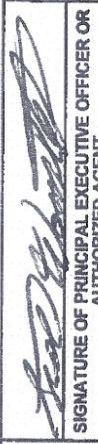
DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN

RP4 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****	*****				
00400 10 Effluent Gross Solids, total suspended		*****	*****	*****	6.5 MINIMUM	*****	9 MAXIMUM	SU		Twice Per Month	GRAB
00530 10 Effluent Gross Solids, settleable		*****	*****	*****	*****	35 30DA AVG	70 MX 7D AV	mg/L		Twice Per Month	GRAB
00545 10 Effluent Gross Iron, total (as Fe)		*****	*****	*****	*****	*****	5 DAILY MX	ml/L		Twice Per Month	GRAB
01045 10 Effluent Gross Oil and grease		*****	*****	*****	*****	3.5 30DA AVG	7 DAILY MX	mg/L		Twice Per Month	GRAB
03582 10 Effluent Gross Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	10 INST MAX	mg/L		Contingent	GRAB
50050 10 Effluent Gross Solids, total dissolved		*****	*****	*****	*****	*****	*****	*****		Monthly	INSTAN
70295 10 Effluent Gross		*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		TELEPHONE	DATE
			(970) 675-4322	10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER	MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24-HR PRECIP. EVENT - SEE IA.1., PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING - IB.1.A., PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

025-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN
RP4 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Oil and grease visual 84066 10 Effluent Gross	SAMPLE MEASUREMENT	*****				*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	Req. Mon. INST MAX	Y=1,N=0	*****	*****	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA CODE		NUMBER	
				MM/DD/YYYY	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather, evaluate, and report the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true and accurate. I understand that anyone who furnishes false or misleading information on this report or who omits material or information requested on the report may be subject to criminal sanctions (including fines and imprisonment) and/or civil sanctions (including civil penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations).					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR PRECIP. EVENT - SEE I.A.1., PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A.,PG. 13. QRTLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

026-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
SDH3/5 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☐

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
pH		*****	*****	*****	7.76	*****	SU	0	2/month	Insitu
00400 10 Effluent Gross		*****	*****	*****	6.5 MINIMUM	*****	SU		Twice Per Month	INSITU
Solids, total suspended		*****	*****	*****	*****	<10	mg/L	0	2/month	Grab
00530 10 Effluent Gross		*****	*****	*****	35 30DA AVG	*****	mg/L		Twice Per Month	GRAB
Solids, settleable		*****	*****	*****	*****	<0.1	mL/L	0	2/month	Grab
00545 10 Effluent Gross		*****	*****	*****	*****	5 DAILY MX	mL/L		Twice Per Month	GRAB
Iron, total (as Fe)		*****	*****	*****	*****	*****	mg/L	0	2/month	Grab
01045 10 Effluent Gross		*****	*****	*****	*****	*****	mg/L		Twice Per Month	GRAB
Oil and grease		*****	*****	*****	*****	*****	mg/L	0	Contingent	
03582 10 Effluent Gross		*****	*****	*****	*****	*****	mg/L		Contingent	GRAB
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	0	Continuous	Instant
50050 10 Effluent Gross		*****	*****	*****	*****	*****	*****		Continuous	INSTANT
Solids, total dissolved		*****	*****	*****	*****	*****	mg/L	0	1/Quart.	Grab
70295 10 Effluent Gross		*****	*****	*****	*****	*****	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		(970) 675-4322	10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
			MMDDYYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR, 24HR PRECIP. EVENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS. OIL & GREASE REPORTING - I.B.1.A., PG. 13. QRTLY SAMPLING INSTRUCTIONS - I.C.7, PG. 14.

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

Form Approved
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

026-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
SDH3/5 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
07/01/2016	09/30/2016
FROM	TO

No Discharge ☐

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Oil and grease visual	*****	NA	0	*****	*****	*****	0	2/month	Visual
84066 10 Effluent Gross	*****	Req. Mon. INST MAX	Y=t;N=0	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
TYPED OR PRINTED		AREA Code	NUMBER
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		MM/DD/YYYY	

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR.24HR PRECIP. EVENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A.,PG. 13. QRTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

PERMIT NUMBER
C00038024

DISCHARGE NUMBER
026-W

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
ACUTE WET TESTING FOR 026A
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☐

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS	UNITS			
LC50 Static Renewal 48hr Acute Daphnia magna TAM3C 10 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	0	*****	*****	%	1	1/Quarter	Grab
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	100 MO AV MN	*****	*****	%		Quarterly	GRAB
LC50 Static 96hr Acute Pimephales TAN6C 10 Effluent Gross	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	0	*****	*****	%	1	1/Quarter	Grab
	SAMPLE MEASUREMENT PERMIT REQUIREMENT	*****	*****	*****	100 MO AV MN	*****	*****	%		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
TYPED OR PRINTED		AREA Code NUMBER	MM/DD/YYYY MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

SEE PART LA.2, PG. 8-10, FOR DETAILS OF TEST PROCEDURE. REPORT LC50- STATISTICAL POINT ESTIMATE WHICH IS LETHAL TO 50% OF TEST ORGANISMS, AND ATTACH ACUTE TOXICITY TEST REPORT FORM TO DMR.
See attached WET testing results. Division previously notified.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

028-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
RP5 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****	*****	*****			
00400 1 0 Effluent Gross Solids, total suspended		*****	*****	*****	6.5 MINIMUM	*****	*****	SU		Twice Per Month	GRAB
00530 1 0 Effluent Gross Solids, settleable		*****	*****	*****	*****	*****	35 30DA AVG	mg/L		Twice Per Month	GRAB
00545 1 0 Effluent Gross Iron, total (as Fe)		*****	*****	*****	*****	*****	*****	5 DAILY MX		Twice Per Month	GRAB
01045 1 0 Effluent Gross Oil and grease		*****	*****	*****	*****	*****	3.5 30DA AVG	mg/L		Twice Per Month	GRAB
03582 1 0 Effluent Gross Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****	*****	10 INST MAX		Contingent	GRAB
50050 1 0 Effluent Gross Solids, total dissolved		*****	*****	*****	*****	*****	*****	*****		Monthly	INSTAN
70295 1 0 Effluent Gross		*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		(970) 675-4322	10/25/2016
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 18YR, 24HR PRECIP. EVENT - SEE IA.1, PG.3. FOR REQUIREMENTS. OIL & GREASE REPORTING - I.B.1.A., PG. 13. QTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.		AREA Code	NUMBER
		MM/DD/YYYY	MM/DD/YYYY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

028-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR
(SUBR DW) RBLAN
RP5 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	UNITS			
Oil and grease visual 84066 10 Effluent Gross	SAMPLE MEASUREMENT	*****				*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	Req. Mon. INST MAX	Y=1;N=0	*****	*****	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanslett, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
TYPED OR PRINTED		AREA Code NUMBER	MM/DD/YYYY MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR PRECIP. EVENT - SEE I.A.1, PG.3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A.,PG. 13. QRTLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

029-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RELAN
DISCHARGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
pH		*****	*****	*****	*****	*****				
00400 1 0 Effluent Gross		*****	*****	*****	6.5 MINIMUM	9 MAXIMUM	SU		Twice Per Month	INSITU
Solids, total suspended		*****	*****	*****	*****	*****				
00530 1 0 Effluent Gross		*****	*****	*****	*****	35 30DA AVG	mg/L		Twice Per Month	GRAB
Solids, settleable		*****	*****	*****	*****	*****				
00545 1 0 Effluent Gross		*****	*****	*****	*****	5 DAILY MX	mL/L		Twice Per Month	GRAB
Iron, total (as Fe)		*****	*****	*****	*****	*****				
01045 1 0 Effluent Gross		*****	*****	*****	*****	3 30DA AVG	mg/L		Twice Per Month	GRAB
Oil and grease		*****	*****	*****	*****	*****				
03582 1 0 Effluent Gross		*****	*****	*****	*****	10 INST MAX	mg/L		Contingent	GRAB
Flow, in conduit or thru treatment plant		*****	*****	*****	*****	*****				
50050 1 0 Effluent Gross		Req. Mon. 30DA AVG	.61 DAILY MX	Mgal/d	*****	*****			Continuous	INSTAN
Solids, total dissolved		*****	*****	*****	*****	*****				
70295 1 0 Effluent Gross		*****	*****	*****	*****	Req. Mon. QTR AVG	mg/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Warstedt, Environmental Engineer		TELEPHONE (970) 675-4322		DATE 10/25/2016
TYPED OR PRINTED		NUMBER		MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR PRECIP. EVENT - SEE I.A.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - I.B.1.A.,PG. 13. ORTRLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

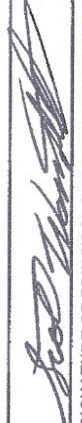
029-A
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR
(SUBR DW) RBLAN
DISCHARGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING				QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Oil and grease visual 84066 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****										
	PERMIT REQUIREMENT	*****	Req. Mon. INST MAX	Y=1,N=0	*****	*****	*****	*****	*****		Twice Per Month	VISUAL

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer		TELEPHONE (970) 675-4322		DATE 10/25/2016
TYPED OR PRINTED		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		NUMBER MM/DD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TSS & TOTAL IRON LIMITS WILL BE WAIVED FOR 10YR,24HR PRECIP. EVENT - SEE LA.1, PG. 3. FOR REQUIREMENTS.OIL & GREASE REPORTING - LB.1A,PG. 13. QTRTLY SAMPLING INSTRUCTIONS - I.C.7., PG. 14.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

029-W
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
ACUTE WET TESTING FOR 029A
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	UNITS	VALUE	UNITS	VALUE			
LC50 Static Renewal 48Hr Acute Daphnia magna TAM3C 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
LC50 Static 96Hr Acute Pimephales TAN6C 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA Code		NUMBER	
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
SEE PART I.A.2, PG. 8-10, FOR DETAILS OF TEST PROCEDURE. REPORT LC50- STATISTICAL POINT ESTIMATE WHICH IS LETHAL TO 50% OF TEST ORGANISMS, AND ATTACH ACUTE TOXICITY TEST REPORT FORM TO DMR.					

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024	045-A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD		
MM/DD/YYYY	TO	MM/DD/YYYY
07/01/2016		09/30/2016

FROM

DMR Mailing ZIP CODE: 81648
MINOR RBLAN
(SUBR DW)
SEWAGE TREATMENT PLANT
External Outfall

☐ **No Discharge**

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS				
BOD, 5-day, 20 deg. C	SAMPLE MEASUREMENT	3.34	13.65	lb/day	*****	167	227	mg/L	0	1/month	grab
	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	lb/d	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	mg/L		Monthly	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	.0024	.0072	MGD	*****	*****	*****	*****	0	1/month	instan
	PERMIT REQUIREMENT	Req. Mon. 30DA AVG	.043 DAILY MX	Mgal/d	*****	*****	*****	*****		Monthly	INSTAN
50050 1 0 Effluent Gross											

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information submitted to, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel prepared property papers and supporting documents. Based on my inquiry of the persons who manage the system, or those persons directly under their supervision, the information contained on this document is true, correct, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer				(970) 675-4322		10/25/2016	
TYPED OR PRINTED				NUMBER		MM/DD/YYYY	
				AREA Code			

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

INFLUENT SAMPLES MUST BE COLLECTED, ANALYZED & REPORTED MONTHLY REGARDLESS OF WHETHER AN EFFLUENT DISCHARGE OCCURS.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MIN01
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR
(SUBR DW) RBLAN
DP1 SEDI POND TO SCULLION GLCH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Arsenic, total recoverable 00978 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Selenium, total recoverable 00981 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Beryllium, total recoverable (as Be) 00998 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Nickel, total recoverable 01074 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Zinc, total recoverable 01094 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Cadmium, total recoverable 01113 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB
Lead, total recoverable 01114 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	ug/L	*****	0	Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA Code		NUMBER	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		NUMBER		MM/DD/YYYY	
					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024		MN01	
PERMIT NUMBER		DISCHARGE NUMBER	
MONITORING PERIOD			
MM/DD/YYYY	MM/DD/YYYY		
07/01/2016	TO	09/30/2016	

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
DP1 SEDI POND TO SCULLION GLCH
External Outfall

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS			
Copper, total recoverable 01119 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Chromium, trivalent total recoverable 04262 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Manganese, total recoverable 11123 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	ug/L	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE		DATE
Scott Wanstedt, Environmental Engineer	(970) 675-4322		10/25/2016
TYPED OR PRINTED	AREA Code	NUMBER	NNMMDDYYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system of quality assurance that complies with federal and state requirements for data integrity. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MN04
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR
(SUBR DW) RBLAN
PP2 TO SCULLION GULCH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Arsenic, total recoverable	00978 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****			
		*****	*****	*****	*****	*****	*****	*****			
Selenium, total recoverable	00981 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			
Beryllium, total recoverable (as Be)	00998 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			
Nickel, total recoverable	01074 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			
Zinc, total recoverable	01094 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			
Cadmium, total recoverable	01113 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			
Lead, total recoverable	01114 1 0 Effluent Gross	*****	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
		*****	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Warstedt, Environmental Engineer	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE (970) 675-4322	DATE 10/25/2016
		AREA Code NUMBER	MIN/DI/TYYY
TYPED OR PRINTED			
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MN08
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
SS-1 SLOT STORAGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Arsenic, total recoverable 00578 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Selenium, total recoverable 00981 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Beryllium, total recoverable (as Be) 00998 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Nickel, total recoverable 01074 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Zinc, total recoverable 01094 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Cadmium, total recoverable 01113 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			
Lead, total recoverable 01114 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 	TELEPHONE	DATE
		(970) 675-4322	10/25/2016
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)		AREA Code	NUMBER
			MMDDYYYY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MIN08
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

SS-1 SLOT STORAGE TO RED WASH
External Outfall

No Discharge ☒

MONITORING PERIOD
MM/DD/YYYY MM/DD/YYYY
FROM 07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Copper, total recoverable 01119 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Chromium, trivalent total recoverable 04262 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
Manganese, total recoverable 11123 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA Code		NUMBER	
		NUMBER		NUMBER	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)					

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024	MIN09
PERMIT NUMBER	DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR

(SUBR DW) RBLAN

SS-2 SLOT STORAGE TO RED WASH

External Outfall

No Discharge ☒

MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
07/01/2016	09/30/2016
FROM	TO

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Arsenic, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Selenium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Beryllium, total recoverable (as Be)	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Nickel, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Zinc, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Cadmium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
Lead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB
01114 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****						
	PERMIT REQUIREMENT	*****	*****	*****	*****	Req. Mon. 30DA AVG	Req. Mon. DAILY MX	ug/L		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
Scott Wanstedt, Environmental Engineer	(970) 675-4322	10/25/2016
TYPED OR PRINTED	AREA Code	NUMBER
	MMDDYYYY	

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MNO9
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648

MINOR
(SUBR DW) RBLAN
SS-2 SLOT STORAGE TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

FROM

No Discharge ☒

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total recoverable 04119 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Chromium, trivalent total recoverable 04262 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Manganese, total recoverable 11123 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****		Quarterly	GRAB
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		NUMBER		MM/DD/YYYY	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		AREA Code		MM/DD/YYYY	
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather, evaluate, and report the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)					

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MN26
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
SDH3/5 SEDI POND TO RED WASH
External Outfall

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

No Discharge ☐

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	VALUE	UNITS	VALUE			
Arsenic, total recoverable 00978 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<5	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Selenium, total recoverable 00981 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	7.2	ug/L	0	6/quarter	0	6/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Beryllium, total recoverable (as Be) 00998 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<1	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Nickel, total recoverable 01074 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	16	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Zinc, total recoverable 01094 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<50	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Cadmium, total recoverable 01113 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<1	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB
Lead, total recoverable 01114 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	<1	ug/L	0	1/quarter	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	Req. Mon. 30DA AVG	ug/L		Quarterly		Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER Scott Wanstedt, Environmental Engineer	TELEPHONE (970) 675-4322		DATE 10/25/2016
	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT 		NUMBER MMDDYYYY
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

NAME: Blue Mountain Energy Inc
ADDRESS: 3607 CR 65
Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MN26
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR

(SUBR DW) RBLAN
SDH3/5 SEDI POND TO RED WASH
External Outfall

No Discharge ☐

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS			
Copper, total recoverable 01119 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	0	6/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	0	Quarterly	GRAB
Chromium, trivalent total recoverable 04262 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	0	Quarterly	GRAB
Manganese, total recoverable 11123 1 0 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****	*****	0	1/quarter	Grab
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****	*****	0	Quarterly	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE		DATE
Scott Warstedt, Environmental Engineer	(970) 675-4322		10/25/2016
TYPED OR PRINTED	AREA Code	NUMBER	MM/DD/YYYY
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision for the purposes of submitting information to the public under the provisions of the Freedom of Information Act. I am a duly licensed professional engineer and I am duly licensed to practice engineering in the State of Colorado. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.			
COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)			

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

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Rangely, CO 81648
FACILITY: DESERADO MINE
LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024
PERMIT NUMBER

MN29
DISCHARGE NUMBER

DMR Mailing ZIP CODE: 81648
MINOR (SUBR DW) RBLAN
DISCHARGE TO RED WASH
External Outfall

No Discharge ☒

MONITORING PERIOD
MM/DD/YYYY TO MM/DD/YYYY
07/01/2016 TO 09/30/2016

PARAMETER	SAMPLE MEASUREMENT PERMIT REQUIREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Arsenic, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
00978 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Selenium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
00981 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Beryllium, total recoverable (as Be)	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
00998 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Nickel, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
01074 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Zinc, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
01094 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Cadmium, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
01113 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
Lead, total recoverable	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			
01114 10 Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	*****	*****			
	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE	
Scott Wanstedt, Environmental Engineer		(970) 675-4322		10/25/2016	
TYPED OR PRINTED		AREA Code		NUMBER	
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that I am a duly licensed professional engineer and that the information submitted herein is true and correct to the best of my knowledge and belief, and that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

**NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)**

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

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Rangely, CO 81648
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LOCATION: 3607 CR 65
RANGELY, CO 81648
ATTN: ALAN HILLARD, MINE MGR

CO0038024	PERMIT NUMBER
-----------	---------------

MN29	DISCHARGE NUMBER
------	------------------

DMR Mailing ZIP CODE: 81648
MINOR
(SUBR DW) RBLAN
DISCHARGE TO RED WASH
External Outfall

☒ No Discharge

PARAMETER		QUANTITY OR LOADING			QUALITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	UNITS				
Copper, total recoverable	SAMPLE MEASUREMENT	0.000000	0.000000	0.000000	0.000000						
	PERMIT REQUIREMENT	0.000000	0.000000	0.000000	0.000000	Req. Mon. 30DA AVG	ug/L	Req. Mon. DAILY MX		Quarterly	GRAB
Chromium, trivalent total recoverable	SAMPLE MEASUREMENT	0.000000	0.000000	0.000000	0.000000						
	PERMIT REQUIREMENT	0.000000	0.000000	0.000000	0.000000	Req. Mon. 30DA AVG	ug/L	Req. Mon. DAILY MX		Quarterly	GRAB
04262 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.000000	0.000000	0.000000	0.000000						
	PERMIT REQUIREMENT	0.000000	0.000000	0.000000	0.000000	Req. Mon. 30DA AVG	ug/L	Req. Mon. DAILY MX		Quarterly	GRAB
Manganese, total recoverable	SAMPLE MEASUREMENT	0.000000	0.000000	0.000000	0.000000						
	PERMIT REQUIREMENT	0.000000	0.000000	0.000000	0.000000	Req. Mon. 30DA AVG	ug/L	Req. Mon. DAILY MX		Quarterly	GRAB
11123 1 0 Effluent Gross	SAMPLE MEASUREMENT	0.000000	0.000000	0.000000	0.000000						
	PERMIT REQUIREMENT	0.000000	0.000000	0.000000	0.000000	Req. Mon. 30DA AVG	ug/L	Req. Mon. DAILY MX		Quarterly	GRAB

certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel prepared all information submitted. Based on my inquiry of the person or persons who prepared this information, or those persons directly responsible for gathering the information, the information submitted is true and accurate, and I am not aware of any falsification of the information submitted. I am not aware of any person or persons who have prepared or caused to be prepared this information for submission in violation of the law.

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information on which this document is based. I am a duly sworn Federal employee or official of the system, or those persons directly responsible for gathering the information, the information was obtained in the best of my knowledge and belief, true, accurate, and complete. I also advise that there are significant possibilities for submitting false information, including the possibility of face and impersonation for forwarding this document.	
Scott Wanstedt, Environmental Engineer		SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	
TYPED OR PRINTED		TELEPHONE	DATE
		(970) 675-4322	10/25/2016
		AREA Code	NUMBER
			MMDD/YYYY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

TRE Environmental Strategies, LLC
100 Racquette Drive, Unit A, Fort Collins, Colorado 80524-2757
T 970.416.0916 F 970.490.2963

September 9, 2016

Scott Wanstedt
Blue Mountain Energy, Inc.
Deserado Mine
3607 CR 65
Rangely, Colorado 81648

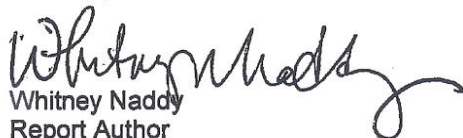
Subject: Results of WET tests – August / September 2016

Mr. Wanstedt:

Attached are the copies of the reports for the *Daphnia magna* and *Pimephales promelas* toxicity tests initiated on August 30, 2016 with effluent from SDH-3 #026.

We appreciate the opportunity to complete these studies for Blue Mountain Energy, Inc. Please do not hesitate to contact one of us if you have any questions.

Sincerely,



Whitney Naddy
Report Author
naddywm.tre@gmail.com



Rami B. Naddy, Ph.D.
Study Director / Environmental Toxicologist
naddyrb.tre@gmail.com

Attachments:

14001-436-024
14001-436-025

Report of Toxicity Testing using the Cladoceran *Daphnia magna*

Project ID: 14001-436-024
August / September 2016

Sponsor and Laboratory Information

Sponsor	Blue Mountain Energy, Inc. Deserado Mine 3607 CR 65 Rangely, Colorado 81648
Project Officer	Scott Wanstedt (970) 675-4322
Testing Facility	TRE Environmental Strategies, LLC 100 Racquette Drive, Unit A Fort Collins, CO 80524 Fax: (970) 490-2963 State of Florida NELAP Laboratory ID: E87972
Study Director	Rami B. Naddy, Ph.D. (970) 416-0916 email: naddyrb.tre@gmail.com
Report Author	Whitney Naddy (970) 416-0916 email: naddywm.tre@gmail.com

Test Information

Test	Acute Toxicity under Static-Renewal Conditions
Basis	USEPA (2002), method 2021.0 and CDPHE (1998)
Test Dates and Time	August 30, 2016 @ 1330 to September 1, 2016 @ 1330
Test Length	48 hours
Species	<i>Daphnia magna</i>
Test Material	Effluent (Grab)
Outfall	SDH-3 #026
Permit Number	CO-0038024
Dilution / Control Water	Moderately Hard Reconstituted Water (MH)
Concurrent Control Water	N/A
Test Concentrations	0 (MH), 50 and 100% effluent
Permit Compliance	Pass ☒ Fail ☐ Non-compliance ☐

- Results described in this report apply only to the samples submitted to the laboratory and analyzed, as listed in the report
- Test results comply with NELAC standards. Reports are intended to be considered in their entirety; TRE is not responsible for consequences arising from use of a partial report
- This report contains 4 pages plus 2 appendices

Effluent Collection and Receipt

Sample No.	Field No.	Collection Date & Time	TRE No.	Date of Receipt	Temp. at Arrival (°C)
1	SDH-3 #026	08/29/16 @ 0820	29922	08/30/16	8.7 ^a

^a Sample temperature upon receipt exceeded the range of 0 to 6°C specified by USEPA (2002)

Note: See Appendix A for chain of custody records.

Effluent Characterization

Sample No.	pH	Hard. (mg/L) ^a	Alk. (mg/L) ^a	Spec. Cond. (µS/cm)	TRC (mg/L) ^b	NH ₃ -N (mg/L)
1	8.1	264	1,640	14,340	<0.02	3.2

^a As CaCO₃

^b Total residual chlorine

Dilution / Control Water Characterization

Batch No.	pH	Hard. (mg/L) ^a	Alk. (mg/L) ^a	Spec. Cond. (µS/cm)	TRC (mg/L) ^b	NH ₃ -N (mg/L)
12448 ^d	8.2	86	57	303	<0.02	<1.0

^a As CaCO₃

^b Total residual chlorine

Test Conditions

Type	Static-Renewal Acute			
Test Endpoints	Survival			
Test Chambers	147-ml plastic cups			
Test Solution Volume	25 ml			
Replicates per Treatment	4			
Organisms per Replicate	5			
Test Temperature	20 ± 1°C (≤ 3°C differential)			
Lighting	Fluorescent, 16 hours light:8 hours dark			
Chamber Placement	Random according to computer-generated chart			
Aeration?	X	No		Yes
Test Solution Renewal	Daily			

Test Organism

Species	<i>Daphnia magna</i>
Age	<24 hours
Source	TRE In-house culture, batch 082916
Acclimation	None
Feeding	None during the test
Reference Toxicant Testing	Initiated August 25, 2016 using sodium chloride (NaCl)

TEST RESULTS

Biological Data

Test Concentration (% Effluent)	Percent Survival of <i>Daphnia magna</i>	
	24 hours	48 hours
0 (Control)	100	100
50	95	95
100	0	0
Receiving Water Performance	Acceptable	

Note: See Appendix B for copies of laboratory data sheets

Data Analysis and Test Endpoints

Biological Endpoint	Statistical Endpoint	Value (% Effluent)
Survival	NOAEC	50
	48-hour LC ₅₀	69.43 (C.L. 66.88 – 72.08)

NOAEC = No Observed Adverse Effect Concentration

Note: Analyses completed using, where appropriate, CETIS version 1.8.7 (2014).

Physical and Chemical Data

Treatment (% Effluent)	pH		Dissolved Oxygen (mg/L)		Conductivity (µS/cm)		Temperature (°C)	
	Low	High	Low	High	Low	High	Low	High
0 (Control)	8.2	8.3	7.0	7.2	291	303	20	20
100	8.1	8.8	7.1	7.2	13,690	14,340	20	20
All Treatments	8.1	8.9	≥7.0		NA		20 ^a	20 ^a
							19 ^b	22 ^b

^a Temperature in test solutions

^b Continuous temperature in water bath

Reference Toxicant Test Results for *D. magna*

48-Hour LC ₅₀	TRE Historical 95% Control Limits	
	Low	High
3,380	3,007	3,521

Note: Values are expressed as mg/L of chloride

References

CETIS. 2014. Comprehensive Environmental Toxicity Information System. User Guide (version 1.8.7). Tidepool Scientific, LLC. McKinleyville, CA.

Colorado Department of Public Health and Environment. 1998. Laboratory guidelines for conducting whole effluent toxicity tests. Water Quality Control Division. Denver, Colorado. March 1998.

USEPA. 2002. Methods for measuring the acute toxicity of effluents and receiving waters to freshwater and marine organisms. Fifth Edition, EPA-821-R-02-012.

Statement of Quality Assurance

The test data were reviewed by the Quality Assurance Unit to assure that the study was performed in accordance with the protocol (if applicable) and standard operating procedures, and that the resulting data and report meet the requirements of the NELAC standards. This report is an accurate reflection of the raw data.

Anita Rehner
Quality Assurance Unit

September 9, 2016
Date

Phyllis Madry
Data Analyst

September 9, 2016
Date

APPENDIX A
Chain of Custody Records

[illegible]

Page 3/3 of 3

Serial No. 01753

APPENDIX B

Test Data

TOXICITY DATA PACKAGE COVER SHEET

QA: 129/8/16

Test Type: Acute Test
Test Substance: Effluent
Dilution Water Type: MQ Mod Hard
Concurrent Control Water Type: NA
Date and Time Test Began: 8/30/16 @ 1330
Protocol Number: USEPA 2002 method 2021.0

Project Number: 14001-436-024
Species: Daphnia magna
Organism Lot or Batch Number: 082916
Age: 24 hr (< 24 hr) Supplier: TRE
Date and Time Test Ended: 9/1/16 @ 1330
Investigator(s): RR/M/16

Background Information

Type of Test: Static-renewal
Test Temperature: 20 ± 1 °C
Test Solution Vol.: 25 ml
Length of Test: 48 h
Photoperiod: 16 h light:8 h dark
Type of Food and Quantity per Chamber: NONE

pH control?: Yes No
If yes, give % CO₂: N/A
Env. Chmbr/Bath #: 1 Test Chmbrs: 147-ml cups
Number of Replicates per Treatment: 4
Number of Organisms per Replicate: 5
Light Intensity: 50-100 ft.-c.
Feeding Frequency: N/A

Test Substance Characterization Parameters and Frequency:

Hardness: Sx Receipt Alkalinity: Sx Receipt NH₃: Sx Receipt TRC: Sx Receipt
pH: Daily Conductivity: Daily

Test Concentrations (Volume:Volume): 0 (MH), and 100% 50% & 100%

Agency Summary Sheet(s)?: None

Reference Toxicant Data: Test Dates: 08/25/16 to 08/27/16 LC₅₀: 3,380 mgCl⁻/l
Hist. 95% Control Limits: 3,007 to 3,521 Method for Determining Ref. Tox. Value: Graphical

Special Procedures and Considerations:

D.O. maintained ≥ 4.0 mg/L

Conductivity measured in control and 100% at test termination

Study Director Initials: MS Date: 8/30/16

ORZN 8/30/16 CF

TEST SUBSTANCE USAGE LOG

Project Number: 14001-436-024

	Sample 1	Sample 2	Sample 3	Sample 4
Test Substance Number	29922			
Test Substance Collection Date and Time	From: @ 08/27/16 @ 0820	From: @	From: @	From: @
	To: @	To: @	To: @	To: @
Sample Type (Grab or Comp)	grab			
Date Test Substance Received	8/30/16			
Dilution Water Number	12448			
<u>RW#</u> or TRE#, circle one	NA			
Concurrent Control Water RW#				
Date(s) Used	8/30/16			
	8/31/16			

Preparation of Test Solutions

[illegible]

ACUTE BIOLOGICAL DATA

Project Number:	14001-436-024	QA: 12/9/16/16
Test Species:	<i>Daphnia magna</i>	

%Conc.	Test Replicate	Number of Surviving Organisms					Remarks
		0 Hours	24 Hours	48 Hours	72 Hours	96 Hours	
MH	A	5	5	5			100%
	B	5	5	5			
	C	5	5	5			
	D	5	5	5			
100% 50%	A	5	4	4			95%
	B	5	5	5			
	C	5	5	5			
	D	5	5	5			
100%	A	5	0	1			0%
	B	5	0	1			
	C	5	0	1			
	D	5	0	1			
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
Date:		8/30/16	8/31/16	9/1/16			
Time:		1330	1450	1330			
Initials:		RAH	AB	AM			

ON 8/30/16 e

ACUTE CHEMICAL DATA

Project Number: <u>14001-436-024</u>	QA: <u>meq/8/16</u>
Test Species: <u>Daphnia magna</u>	

		NEW				OLD				Meter # (All Conc.)				
%		Day 0	Day 1	Day 2	Day 3	Day 1	Day 2	Day 3	Day 4	Day 0	Day 1	Day 2	Day 3	Day 4
Conc.:	MH					Rep. A	Rep. B	Rep.	Rep.					
pH		8.2	8.2			8.2	8.3			FM24	FM24	FM24		
D.O. (mg/L)		7.0	7.2			7.2	7.2			5	5	5		
Temp. (°C)		20	20			20	20			130	112	116		
Cond. (µS/cm)		303	291				300			15	15	15		
Hard. (mg/L)		86								Titc				
Alk. (mg/L)		57								Titc				
TRC (mg/L) (8/28/16)		<0.02								22				
NH ₃ (mg/L) (8/28/16)		<1.0								HA#1				
Conc.:	50%													
pH		8.2	8.3			8.9	8.9							
D.O. (mg/L)		7.1	7.2			7.2	7.3							
Temp. (°C)		*	*			20	20							
Cond. (µS/cm)		7530	6900				7290							
Hard. (mg/L)														
Alk. (mg/L)														
TRC (mg/L)														
NH ₃ (mg/L)														
Conc.:	100%													
pH		8.1	8.2			8.8								
D.O. (mg/L)		7.2	7.1			7.2								
Temp. (°C)		20	20			20	20							
Cond. (µS/cm)		14340	14270			13610								
Hard. (mg/L)		264												
Alk. (mg/L)		1640												
TRC (mg/L)		<0.02												
NH ₃ (mg/L) (8/31/16)		3.21 ^A								ΔHS#1				
Date:		8/30/16	8/31/16			8/31/16	9/1/16							
Time:		1315	1435			1450	1335							
Initials:		RR	AB			AB	ARM							

Note: Hardness, alkalinity, TRC, and NH₃ data appearing on this page have been transcribed from the wet chemistry log, QA Form No. 084
 *Dilution/control water and effluent were brought to 20°C prior to making the dilution series. The temperature of resulting effluent dilutions is assumed to also be 20°C.
 Done 9/1/16 E

DAILY TOXICITY TEST LOG

QA: AR9/8/16

Project Number:	14001-436-024
Test Species:	<i>Daphnia magna</i>

General Comments	Neonates obtained from	Feeding	Initials/Date
	08/8/16 A-D		
	Random Chart: JJ Min/Max Therm. # M-15 ①	NONE	
Test Day 0	Test Solution Mixed at: 1310 Test Organisms Added at: 1330	None	RR 8/30/16
Test Day 1	Real Time Temp= 20 °C Range = 20-22 °C	None	AB 8/31/16
Test Day 2	Real Time Temp= 19 °C Range = 19-22 °C	None	Wm 9/1/16
Test Day 3			
Test Day 4			
Test Day 5			
Test Day 6			
Test Day 7			
Test Day 8			

① AR for RR 9/8/16 E

② Wm 09/09/16, E

CETIS Analytical Report

Report Date: 06 Sep-16 14:06 (p 1 of 2)
 Test Code: 436-024 | 11-6636-0089

pg 6 of 8

Daphnia magna 48-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 17-7504-1164	Endpoint: 48h Survival Rate	CETIS Version: CETISv1.8.7
Analyzed: 06 Sep-16 14:06	Analysis: Nonparametric-Control vs Treatments	Official Results: Yes
Batch ID: 03-4024-3592	Test Type: Survival (48h)	Analyst: Lab Tech
Start Date: 30 Aug-16 13:30	Protocol: EPA/821/R-02-012 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 01 Sep-16 13:30	Species: Daphnia magna	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: <24
Sample ID: 14-2527-9729	Code: 54F40AF1	Client: Blue Mountain Energy
Sample Date: 29 Aug-16 08:20	Material: Ambient Sample	Project: WET Quarterly Compliance Test (3Q)
Receive Date: 30 Aug-16 11:00	Source: Discharge Monitoring Report	
Sample Age: 29h	Station: Effluent	

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	Test Result
Angular (Corrected)	NA	C > T	NA	NA	11.2%	Passes 48h survival rate

Steel Many-One Rank Sum Test

Control	vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Dilution Water		50	16	12	1	6	0.2819	Asymp	Non-Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.007088488	0.007088488	1	1	0.3559	Non-Significant Effect
Error	0.04253092	0.007088488	6			
Total	0.04961941		7			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1	13.7	0.3559	Equal Variances
Variances	Levene Equality of Variance	9	13.7	0.0240	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.7065	0.645	0.0027	Non-normal Distribution

48h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Dilution Water	4	1	1	1	1	1	1	0	0.0%	0.0%
50		4	0.95	0.7909	1	1	0.8	1	0.05	10.5%	5.0%
100		4	0	0	0	0	0	0	0		100.0%

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Dilution Water	4	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	0.0%
50		4	1.286	1.096	1.475	1.345	1.107	1.345	0.05953	9.26%	4.43%
100		4	0.2255	0.2255	0.2256	0.2255	0.2255	0.2255	0	0.0%	83.2%

48h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1	1	1	1
50		0.8	1	1	1
100		0	0	0	0

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1.345	1.345	1.345	1.345
50		1.107	1.345	1.345	1.345
100		0.2255	0.2255	0.2255	0.2255

CETIS Analytical Report

Report Date:

06 Sep-16 14:06 (p 2 of 2)

Test Code:

436-024 | 11-6636-0089

Daphnia magna 48-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 17-7504-1164

Endpoint: 48h Survival Rate

CETIS Version: CETISv1.8.7

Analyzed: 06 Sep-16 14:06

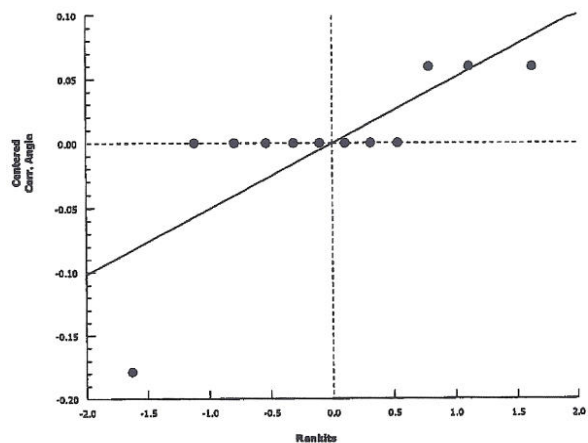
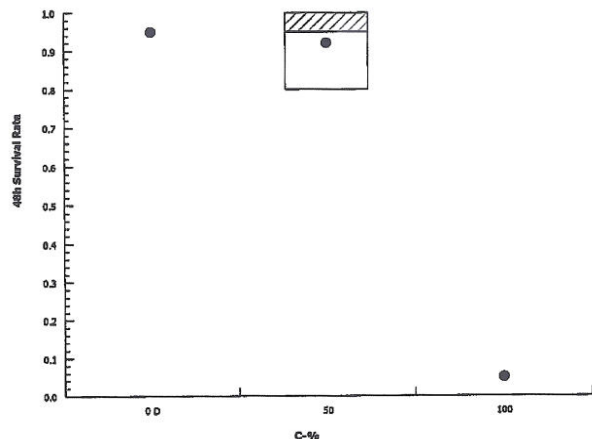
Analysis: Nonparametric-Control vs Treatments

Official Results: Yes

48h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	5/5	5/5	5/5	5/5
50		4/5	5/5	5/5	5/5
100		0/5	0/5	0/5	0/5

Graphics



CETIS Analytical Report

Report Date: 06 Sep-16 14:06 (p1 of 1)
Test Code: 436-024 | 11-6636-0089

Daphnia magna 48-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 11-8899-9464	Endpoint: 48h Survival Rate	CETIS Version: CETISv1.8.7
Analyzed: 06 Sep-16 14:06	Analysis: Trimmed Spearman-Kärber	Official Results: Yes
Batch ID: 03-4024-3592	Test Type: Survival (48h)	Analyst: Lab Tech
Start Date: 30 Aug-16 13:30	Protocol: EPA/821/R-02-012 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 01 Sep-16 13:30	Species: Daphnia magna	Brine: Not Applicable
Duration: 48h	Source: In-House Culture	Age: <24
Sample ID: 14-2527-9729	Code: 54F40AF1	Client: Blue Mountain Energy
Sample Date: 29 Aug-16 08:20	Material: Ambient Sample	Project: WET Quarterly Compliance Test (3Q)
Receive Date: 30 Aug-16 11:00	Source: Discharge Monitoring Report	
Sample Age: 29h	Station: Effluent	

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	LC50	95% LCL	95% UCL
Control Threshold	0	5.00%	1.842	0.008128	69.43	66.88	72.08

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	1	0.9 - NL	Yes	Passes Acceptability Criteria

48h Survival Rate Summary

Calculated Variate(A/B)

C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Dilution Water	4	1	1	1	0	0	0.0%	0.0%	20	20
50		4	0.95	0.8	1	0.05	0.1	10.5%	5.0%	19	20
100		4	0	0	0	0	0		100.0%	0	20

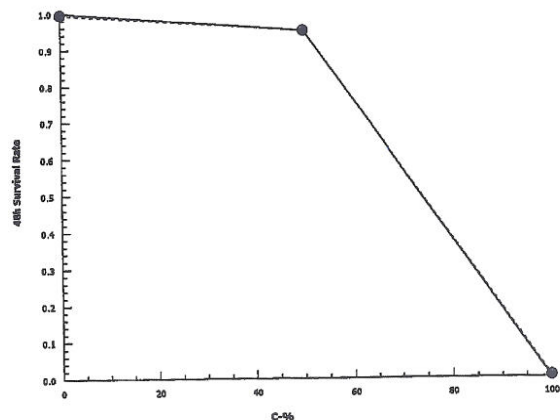
48h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1	1	1	1
50		0.8	1	1	1
100		0	0	0	0

48h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	5/5	5/5	5/5	5/5
50		4/5	5/5	5/5	5/5
100		0/5	0/5	0/5	0/5

Graphics



Report of Toxicity Testing using the Fathead Minnow (*Pimephales promelas*)

Project ID: 14001-436-025
August / September 2016

Sponsor and Laboratory Information

Sponsor	Blue Mountain Energy, Inc. Deserado Mine 3607 CR 65 Rangely, Colorado 81648
Project Officer	Scott Wanstedt (970) 675-4322
Testing Facility	TRE Environmental Strategies, LLC 100 Racquette Drive, Unit A Fort Collins, CO 80524 Fax: (970) 490-2963 State of Florida NELAP Laboratory ID: E87972
Study Director	Rami B. Naddy, Ph.D. (970) 416-0916 email: naddyrb.tre@gmail.com
Report Author	Whitney Naddy (970) 416-0916 email: naddywm.tre@gmail.com

Test Information.

Test	Acute Toxicity under Static-Renewal Conditions
Basis	USEPA (2002), method 2000.0 and CDPHE (1998)
Test Dates and Time	August 30, 2016 @ 1335 to September 3, 2016 @ 1310
Test Length	96 hours
Species	<i>Pimephales promelas</i>
Test Material	Effluent (Grab)
Outfall	SDH-3 #026
Permit Number	CO-0038024
Dilution / Control Water	Moderately Hard Reconstituted Water (MH)
Concurrent Control Water	N/A
Test Concentrations	0 (MH), 50, and 100% effluent
Permit Compliance	Pass ☒ Fail ☐ Non-compliance ☐

- Results described in this report apply only to the samples submitted to the laboratory and analyzed, as listed in the report
- Test results comply with NELAC standards. Reports are intended to be considered in their entirety; TRE is not responsible for consequences arising from use of a partial report
- This report contains 4 pages plus 2 appendices

Effluent Collection and Receipt

Sample No.	Field No.	Collection Date & Time	TRE No.	Date of Receipt	Temp. at Arrival (°C)
1	SDH-3 #026	08/29/16 @ 0820	29922	08/30/16	8.7 ^a

^a Sample temperature upon receipt exceeded the range of 0 to 6°C specified by USEPA (2002)

Note: See Appendix A for chain of custody records.

Effluent Characterization

Sample No.	pH	Hard. (mg/L) ^a	Alk. (mg/L) ^a	Spec. Cond. (µS/cm)	TRC (mg/L) ^b	NH ₃ -N (mg/L)
1	8.0	264	1,640	14,530	<0.02	3.2

^a As CaCO₃

^b Total residual chlorine

Dilution / Control Water Characterization

Batch No.	pH	Hard. (mg/L) ^a	Alk. (mg/L) ^a	Spec. Cond. (µS/cm)	TRC (mg/L) ^b	NH ₃ -N (mg/L)
12448	8.2	86	57	302	<0.02	<1.0

^a As CaCO₃

^b Total residual chlorine

Test Conditions

Type	Static-Renewal Acute			
Test Endpoints	Survival			
Test Chambers	500-ml plastic cups			
Test Solution Volume	250 ml			
Replicates per Treatment	4			
Organisms per Replicate	10			
Test Temperature	20 ± 1°C (≤ 3°C differential)			
Lighting	Fluorescent, 16 hours light: 8 hours dark			
Chamber Placement	Random according to computer-generated chart			
Aeration?	X	No		Yes
Test Solution Renewal	Daily			

Test Organism

Species	<i>Pimephales promelas</i>
Age	4 days
Source	TRE in-house culture, batch 082716
Acclimation	None
Feeding	0.2 ml of brine shrimp nauplii per test chamber approximately 2 hours prior to 48 hour renewal
Reference Toxicant Testing	Initiated August 2, 2016 using sodium chloride (NaCl)

TEST RESULTS

Biological Data

Test Concentration (% Effluent)	Percent Survival of <i>Pimephales promelas</i>			
	24 hours	48 hours	72 hours	96 hours
0 (Control)	100	95	92.5	92.5
50	100	100	97.5	97.5
100	97.5	55	27.5	12.5
Control Performance	Acceptable			

Note: See Appendix B for copies of laboratory data sheets

Data Analysis and Test Endpoints

Biological Endpoint	Statistical Endpoint	Value (% Effluent)
Survival	NOAEC	50
	96-hour LC ₅₀	74.52
		(C.L. 70.95 – 78.28)

NOAEC = No Observed Adverse Effect Concentration

Note: Analyses completed using, where appropriate, and CETIS version 1.8.7 (2014).

Physical and Chemical Data

Treatment (% Effluent)	pH		Dissolved Oxygen (mg/L)		Conductivity (μS/cm)		Temperature (°C)	
	Low	High	Low	High	Low	High	Low	High
0 (Control)	7.9	8.3	6.9	7.4	289	309	19	20
100	8.0	8.7	6.9	7.5	13,960	14,640	20	20
All Treatments	7.9	8.7	≥6.8		NA		19 ^a	20 ^a
							19 ^b	22 ^b

^a Temperature in test solutions

^b Continuous temperature in water bath

Reference Toxicant Test Results for *P. promelas*

96-Hour LC ₅₀	TRE Historical 95% Control Limits	
	Low	High
2,370	1,797	4,262

Note: Values are expressed as mg/L of chloride

References

CETIS. 2014. Comprehensive Environmental Toxicity Information System. User Guide (version 1.8.7). Tidepool Scientific, LLC. McKinleyville, CA.

Colorado Department of Public Health and Environment. 1998. Laboratory guidelines for conducting whole effluent toxicity tests. Water Quality Control Division. Denver, Colorado. March 1998.

USEPA. 2002. Methods for measuring the acute toxicity of effluents and receiving waters to freshwater and marine organisms. Fifth Edition, EPA-821-R-02-012.

Statement of Quality Assurance

The test data were reviewed by the Quality Assurance Unit to assure that the study was performed in accordance with the protocol (if applicable) and standard operating procedures, and that the resulting data and report meet the requirements of the NELAC standards. This report is an accurate reflection of the raw data.



Quality Assurance Unit



Date



Data Analyst



Date

APPENDIX A
Chain of Custody Records

11/25/2017

Serial No. 01753

APPENDIX B

Test Data

TOXICITY DATA PACKAGE COVER SHEET

QA: 1/29/8/16

Test Type: Acute

Project Number: 14001-436-025

Test Substance: Effluent

Species: Pimephales promelas

Dilution Water Type: MQ Mod Hard

Organism Lot or Batch Number: 082716

Concurrent Control Water Type: NA

Age: 3 days (1 - 14 d) Supplier: TRE

Date and Time Test Began: 8/30/16 @ 1335

Date and Time Test Ended: 8/31/16 @ 1310

Protocol Number: USEPA 2002 method 2000.0

Investigator(s): WPM/1/14/16

Background Information

Type of Test: Static-renewal

pH control?: Yes No

If yes, give % CO₂: N/A

Test Temperature: 20 ± 1 °C

Env. Chmbr/Bath #: 1 Test Chmbrs: 500-ml cups

Test Solution Vol.: 250 ml

Number of Replicates per Treatment: 4

Length of Test: 96 h

Number of Organisms per Replicate: 10

Photoperiod: 16 h light:8 h dark

Light Intensity: 50-100 ft.-c.

Type of Food and Quantity per Chamber: 0.2 ml B.S.

Feeding Frequency: 2 hours prior to renewal on day 2

Test Substance Characterization Parameters and Frequency:

Hardness: Sx Receipt Alkalinity: Sx Receipt NH₃: Sx Receipt TRC: Sx Receipt

pH: Daily Conductivity: Daily

Test Concentrations (Volume:Volume): MH, 50 and 100%

Agency Summary Sheet(s)?: None

Reference Toxicant Data: Test Dates: 08/02/16 to 08/06/16 LC₅₀: 2,370 mg Cr/L
Hist. 95% Control Limits: 1,797 to 4,262 Method for Determining Ref. Tox. Value: Probit

Special Procedures and Considerations:

D.O. maintained ≥ 4.0 mg/L

Conductivity measured in control and 100% at test termination

Chemistry measurements also either with 100% mortality or at termination

Study Director Initials: WPM Date: 8/30/16

QA: 8/31/16

TEST SUBSTANCE USAGE LOG

Project Number: 14001-436-025

Test Substance Number	Sample 1	Sample 2	Sample 3	Sample 4
Test Substance Collection Date and Time	From: 08/29/16 @ 0820 To: @	From: @ To: @	From: @ To: @	From: @ To: @
Sample Type (Grab or Comp)	Grab			
Date Test Substance Received	8/30/16			
Dilution Water Number RW# or TRE#, circle one	12448			
Concurrent Control Water RW#	NONE			
Date(s) Used	8/30/16 8/31/16 9/1/16 9/2/16			

Preparation of Test Solutions

Test Substance Conc. (% Effluent)	Test Substance Volume (ml)	Dilution Water Volume (ml)	Total Volume (ml)	Test Substance Volume (ml)	Dilution Water Volume (ml)	Total Volume (ml)	Test Substance Volume (ml)	Dilution Water Volume (ml)	Total Volume (ml)
MH	0	1000	1000						
50%	500	500	1000						
100%	1000	0	1000						
Total	1500	1500	3000						
Initials / Date	MTH 8/30/16 Mixed FA								
Initials / Date	MH 8/31/16 "								
Initials / Date	Smp 9/1/16 "								
Initials / Date	Smp 9/2/16 "								
Initials / Date									
Initials / Date									
Initials / Date									

ACUTE BIOLOGICAL DATA

Project Number: 14001-436-025

AR: AR9/6/16

Test Species: *Pimephales promelas*

%Conc.	Test Replicate	Number of Surviving Organisms					Remarks
		0 Hours	24 Hours	48 Hours	72 Hours	96 Hours	
MH	A	10	10	10	10	10	2 survival 92.5 %
	B	10	10	9	9	9	
	C	10	10	9	8	8	
	D	10	10	10	10	10	
50%	A	10	10	10	10	10	92.5 %
	B	10	10	10	10	10	
	C	10	10	10	9	9	
	D	10	10	10	10	10	
100%	A	10	10	6	3	0	12.5 %
	B	10	9	5	4	2	
	C	10	10	7	2	2	
	D	10	10	4	2	1	
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
	A						
	B						
	C						
	D						
Date:	8/30/16	8/31/16	9/1/16	9/2/16	9/3/16		
Time:	1335	0930	1400	1500	1310		
Initials:	MM/AR	MB	mm	RA	AS		

ACUTE CHEMICAL DATA

Project Number: <u>14001-436-025</u>	QA: <u>Amg/8/16</u>
Test Species: <u>Pimephales promelas</u>	

		NEW				OLD				Meter # (All Conc.)				
%		Day 0	Day 1	Day 2	Day 3	Day 1	Day 2	Day 3	Day 4	Day 0	Day 1	Day 2	Day 3	Day 4
Conc.:	MH					Rep. A	Rep. B	Rep. C	Rep. D					
pH		8.2	8.2	8.3	8.2	8.2	8.1	8.2	7.9	FM24	FM24	FM24	FM24	FM24
D.O. (mg/L)		7.1	7.4	7.2	7.2	7.0	7.1	6.9	6.9	5	5	5	5	5
Temp. (°C)		20	20	20	20	20	20	20	19	L-25	L-30	L-30	L-29	L-10
Cond. (µS/cm)		302	309	308	307				289*	15	15	15	15	15
Hard. (mg/L)		86								titr.				
Alk. (mg/L)		57								titr.				
TRC (mg/L) (8/28/16)		<0.02								22				
NH ₃ (mg/L) (8/28/16)		<1.0								HA41				
Conc.:	50%													
pH		8.1	8.2	8.1	8.2	8.6	8.6	8.6	8.7					
D.O. (mg/L)		7.2	7.4	7.2	7.3	7.0	7.0	6.8	6.9					
Temp. (°C)		X	X	X	X	20	20	20	20					
Cond. (µS/cm)		7020	7160	7860	7340				6900*					
Hard. (mg/L)														
Alk. (mg/L)														
TRC (mg/L)														
NH ₃ (mg/L)														
Conc.:	100%													
pH		8.0	8.1	8.0	8.0	8.7	8.6	8.6	8.7					
D.O. (mg/L)		7.3	7.5	7.4	7.8	7.1	7.1	6.9	7.1					
Temp. (°C)		20	20	20	20	20	20	20	20					
Cond. (µS/cm)		14530	14040	14040	14340				13960					
Hard. (mg/L)		264												
Alk. (mg/L)		1640												
TRC (mg/L)		<0.02												
NH ₃ (mg/L) (8/31/16)		3.21	4							HA41				
Date:		8/30/16	8/31/16	9/1/16	9/2/16	8/31/16	9/1/16	9/2/16	9/3/16					
Time:		1320	0920	1345	1445	0920	1340	1445	1305					
Initials:		MM	MM	DM	MM	MM	DM	MM	MM					

Note: Hardness, alkalinity, TRC, and NH₃ data appearing on this page have been transcribed from the wet chemistry log, FCETL QA Form No. 084
 *Dilution/control water and effluent were brought to 20°C prior to making the dilution series. The temperature of resulting effluent dilutions is assumed to also be 20°C.

DAILY TOXICITY TEST LOG

Project Number:	14001-436-025	QA: <u>129/8/16</u>
Test Species:	<i>Pimephales promelas</i>	

General Comments		Feeding 0.2 ml B.S. 2hrs prior to renewal on day 2	Initials/Date
	Random Chart: <u>Beta 4A</u> Min/Max Therm. #: <u>M-15</u>		
Test Day 0	Test Solution Mixed at: <u>1315</u> Test Organisms Added at: <u>1335</u>	NONE	8/30/16 MTM
Test Day 1	Real Time Temp= <u>20</u> °C Range = <u>25-27</u> °C <u>20</u> <u>20-22</u>	NONE	8/31/16 MTM
Test Day 2	Real Time Temp= <u>19</u> °C Range = <u>19-22</u> °C	Fed @ 1155 MTM	Ann 9/1/16
Test Day 3	Real Time Temp= <u>20</u> °C Range = <u>19-20</u> °C	NONE	Jeff 9/2/16
Test Day 4	Real Time Temp= <u>19</u> °C Range = <u>19-20</u> °C	None	JS 9/3/16
Test Day 5			
Test Day 6			
Test Day 7			
Test Day 8			

OMH 9/1/16 G

CETIS Analytical Report

Report Date: 06 Sep-16 14:10 (p 1 of 2)
Test Code: 436-025 | 06-6957-1634

Fathead Minnow 96-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 05-5050-8947	Endpoint: 96h Survival Rate	CETIS Version: CETISv1.8.7
Analyzed: 06 Sep-16 14:10	Analysis: Parametric-Control vs Treatments	Official Results: Yes
Batch ID: 12-2829-6798	Test Type: Survival (96h)	Analyst: Lab Tech
Start Date: 30 Aug-16 13:35	Protocol: EPA/821/R-02-012 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 03 Sep-16 13:10	Species: Pimephales promelas	Brine: Not Applicable
Duration: 96h	Source: In-House Culture	Age: <24
Sample ID: 14-6300-8794	Code: 5733BE1A	Client: Blue Mountain Energy
Sample Date: 29 Aug-16 08:20	Material: Ambient Sample	Project: WET Quarterly Compliance Test (3Q)
Receive Date: 30 Aug-16 11:00	Source: Discharge Monitoring Report	
Sample Age: 29h	Station: Effluent	

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	14.4%	50	100	70.71	2

Dunnett Multiple Comparison Test

Control	vs C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Dilution Water	50	-0.8409	2.18	0.198	6	0.9036	CDF	Non-Significant Effect
	100*	10.4	2.18	0.198	6	<0.0001	CDF	Significant Effect

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.925	0.9 - NL	Yes	Passes Acceptability Criteria

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	2.579005	1.289503	2	78.48	<0.0001	Significant Effect
Error	0.1478842	0.01643158	9			
Total	2.72689		11			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	1.005	9.21	0.6050	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.8649	0.802	0.0564	Normal Distribution

96h Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Dilution Water	4	0.925	0.7727	1	0.95	0.8	1	0.04787	10.4%	0.0%
50		4	0.975	0.8954	1	1	0.9	1	0.025	5.13%	-5.41%
100		4	0.125	0	0.2773	0.15	0	0.2	0.04787	76.6%	86.5%

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Dilution Water	4	1.295	1.061	1.529	1.331	1.107	1.412	0.07348	11.3%	0.0%
50		4	1.371	1.242	1.501	1.412	1.249	1.412	0.04074	5.94%	-5.89%
100		4	0.352	0.121	0.5829	0.3927	0.1588	0.4636	0.07256	41.2%	72.8%

96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1	0.9	0.8	1
50		1	1	0.9	1
100		0	0.2	0.2	0.1

Angular (Corrected) Transformed Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1.412	1.249	1.107	1.412
50		1.412	1.412	1.249	1.412
100		0.1588	0.4636	0.4636	0.3218

CETIS Analytical Report

Report Date:

06 Sep-16 14:10 (p 2 of 2)

Test Code:

436-025 | 06-6957-1634

Fathead Minnow 96-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 05-5050-8947

Endpoint: 96h Survival Rate

CETIS Version: CETISv1.8.7

Analyzed: 06 Sep-16 14:10

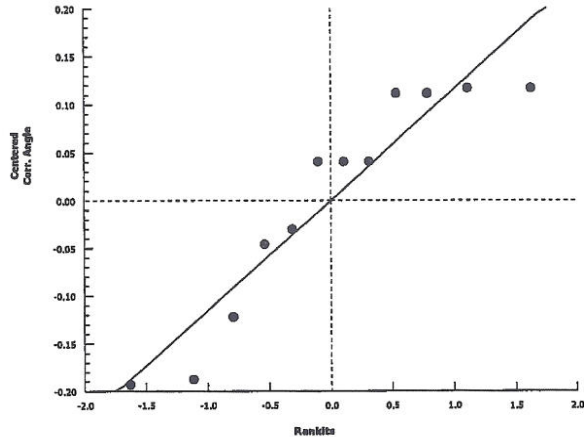
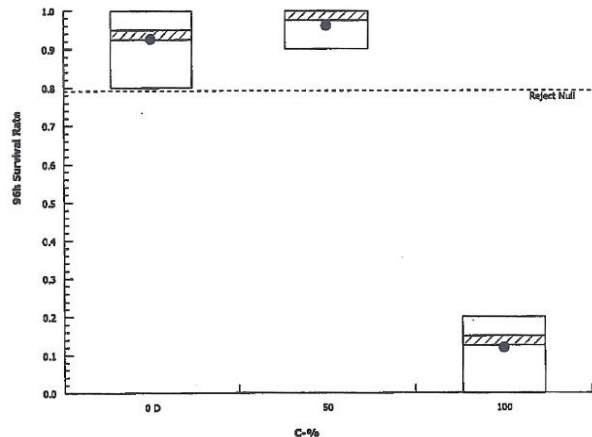
Analysis: Parametric-Control vs Treatments

Official Results: Yes

96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	10/10	9/10	8/10	10/10
50		10/10	10/10	9/10	10/10
100		0/10	2/10	2/10	1/10

Graphics



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CETIS Analytical Report

Report Date: 06 Sep-16 14:11 (p 1 of 1)
Test Code: 436-025 | 06-6957-1634

Fathead Minnow 96-h Acute Survival Test

TRE Environmental Strategies, LLC

Analysis ID: 18-8922-5077	Endpoint: 96h Survival Rate	CETIS Version: CETISv1.8.7
Analyzed: 06 Sep-16 14:11	Analysis: Trimmed Spearman-Kärber	Official Results: Yes
Batch ID: 12-2829-6798	Test Type: Survival (96h)	Analyst: Lab Tech
Start Date: 30 Aug-16 13:35	Protocol: EPA/821/R-02-012 (2002)	Diluent: Mod-Hard Synthetic Water
Ending Date: 03 Sep-16 13:10	Species: Pimephales promelas	Brine: Not Applicable
Duration: 96h	Source: In-House Culture	Age: <24
Sample ID: 14-6300-8794	Code: 5733BE1A	Client: Blue Mountain Energy
Sample Date: 29 Aug-16 08:20	Material: Ambient Sample	Project: WET Quarterly Compliance Test (3Q)
Receive Date: 30 Aug-16 11:00	Source: Discharge Monitoring Report	
Sample Age: 29h	Station: Effluent	

Convergence could not be reached with Probit.

Trimmed Spearman-Kärber Estimates

Threshold Option	Threshold	Trim	Mu	Sigma	LC50	95% LCL	95% UCL
Control Threshold	0.075	13.16%	1.872	0.01067	74.52	70.95	78.28

Test Acceptability Criteria

Attribute	Test Stat	TAC Limits	Overlap	Decision
Control Resp	0.925	0.9 - NL	Yes	Passes Acceptability Criteria

96h Survival Rate Summary

C-%	Control Type	Count	Calculated Variate(A/B)								A	B
			Mean	Min	Max	Std Err	Std Dev	CV%	%Effect			
0	Dilution Water	4	0.925	0.8	1	0.04787	0.09574	10.4%	0.0%		37	40
50		4	0.975	0.9	1	0.025	0.05	5.13%	-5.41%		39	40
100		4	0.125	0	0.2	0.04787	0.09574	76.6%	86.5%		5	40

96h Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	1	0.9	0.8	1
50		1	1	0.9	1
100		0	0.2	0.2	0.1

96h Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Dilution Water	10/10	9/10	8/10	10/10
50		10/10	10/10	9/10	10/10
100		0/10	2/10	2/10	1/10

Graphics

