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CERTIFICATE OF ANALYSIS

NUMBER 05132014

TWENTY EIGHT (28) DAY FINAL REPORT

ATTN: Steve

SAMPLES: 1. May 163-1 2.Cameron 162-1 3. Laubhan 526-3H 4. Willis D Price 25H

START DATE: MAY 6, 2104

FINAL REPORT DATE: JUNE 4, 2014

INTRODUCTION: WELL SAMPLE PRODUCTION WATER FROM TEXAS SITES ,FOUR (4) IN TOTAL, UNDISCLOSED. THESE SAMPLES WAS EXPOSED TO ANOLITE AT 0.5 G/1000 G FW, AS WELL AS GLUTARALDEHYDE 0.3 G/1000 G FW.

SRB = SULFATE REDUCING BACTERIA

APB = ACID PRODUCING BACTERIA

WATER SAMPLES:

- 1. MAY 163-1**
- 2. CAMERON 162-1**
- 3. LAUBHAN 526-3H**
- 4. WILLIS D PRICE 25H**

BIOCIDES:

- 1. ANOLITE 0.5 GALL./1000 GALL. FRAC WATER**
- 2. GLUTARALDEHYDE 0.3 GALL./1000 GALL. FRAC WATER**

RESULTS:

Controls with NO Added Bacteria	SRB Growth	APB Growth
May 163-1	10^2	0
Cameron 162-1	10^1	0

Laubhan 526-3H	10^4	0
Willis D Price 25H	10^1	10^1

Controls WITH Added Bacteria	SRB Growth	APB Growth
May 163-1	10^9	10^7
Cameron 162-1	10^9	10^6
Laubhan 526-3H	10^9	10^6
Willis D Price 25H	10^6	10^9

Sulfate-reducing Bacteria (SRB) and Acid-producing Bacteria (APB) Time Kill Study- 28 Day Result

Water	Biocide	Contact Time (Hours)	SRB's (Colonies/mL)	APB's (Colonies/mL)
May 163-1	Anolite	2	10^3	0
May 163-1	Anolite	24	10^2	0
May 163-1	Glutaraldehyde	2	10^2	10^1
May 163-1	Glutaraldehyde	24	10^2	0
Cameron 162-1	Anolite	2	10^3	10^1
Cameron 162-1	Anolite	24	0	0
Cameron 162-1	Glutaraldehyde	2	10^2	0
Cameron 162-1	Glutaraldehyde	24	0	10^1
Laubhan 526-3H	Anolite	2	10^{4+}	10^1
Laubhan 526-3H	Anolite	24	10^2	10^1
Laubhan 526-3H	Glutaraldehyde	2	10^4	0
Laubhan 526-3H	Glutaraldehyde	24	10^1	0
Willis D Price 25H	Anolite	2	10^3	0
Willis D Price 25H	Anolite	24	0	0
Willis D Price 25H	Glutaraldehyde	2	10^2	0
Willis D Price 25H	Glutaraldehyde	24	10^1	10^1

**POST TREATMENT OF PRODUCED WATER AT 23 DAYS
(5/29/14)**

(WITH ANOLITE ADDED) 28 DAY REPORT (6/30/14)

Water	SRB's	APB's
May 163-1	0	0
Cameron 162-1	0	0
Laubhan 526-3H	10 ⁰⁺	10 ¹
Willis D Price 25H	0	10 ¹

POST TREATMENT OF PRODUCED WATER AT 60 DAYS(7/01/14)

(WITH ANOLITE ADDED) 60 DAY REPORT (7/08/14)

Water	SRB's	APB's
May 163-1	0	0
Cameron 162-1	0	0
Laubhan 526-3H	10 ²	10 ¹
Willis D Price 25H	0	10 ¹

Test Procedures:

Sulfate-reducing Bacteria and Acid-producing Bacteria Time Kill Study

100 ml of Produced Water is measured out, The desired amount of Bacteria (2%) to be tested is introduced into Produced Water. The Produced Water is then treated with desired amount of ANOLITE and shaken. After the desired time interval has elapsed, Modified Postgate "B" Sulfate –reducer Serial Dilution vials and Phenol Red Acid-producer Serial Dilution vials are then inoculated from the treated samples. The vials are then placed in an incubator for the desired time interval.

Respectfully submitted,

Envirocleanse LLC

Phil Bellan, MD