

October 31, 2014

Mr. Allan Batka
United States Environmental Protection Agency
Region 5 (WU-16J)
77 West Jackson Blvd.
Chicago, Illinois 60604

Re: EGT Monthly Report (in conformance with MI-163-1W-C010 & MI-163-1W-C011)

Dear Mr. Batka:

Environmental Geo-Technologies, LLC ("EGT") hereby timely submits its eleventh Monthly Report in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a – i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

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, 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.

We trust that you find this report satisfactory, however, if you have any questions or comments, please feel free to contact us.

Sincerely,

Richard J. Powers, P.E. Chief Operating Officer

cc: J. Frost (EGT), T. Athans (HH)

att.

rjp103114/EGTEPAMonthlyReport-September 2014

AVERAGE INJECTION RATE

893,140

Calculation of Average Injection Rate

CURRENT REPORTING YEAR	2014		
CURRENT REPORTING MONT	TH SEPTEMISE	梁	
Date (month, year) of the first injury	ection into either well	at the Citrin Road Fa	acility
NOVEMBER ZOIS			
CURRE	ENT MONTH (all vol	umes in gallons)	·
y a debit deligio de principal de de distributo de la compania del la compania del la compania de la compania del la compan		antyd cynferhol fae aw rife i'n cone fae'n oler roll o oeth delin dy'i dae'r fo foliolegadia'n.	
	Injected Waste	Injected Non-Waste	Total injected
M	I-163-1W-C010,	Well #1-12	
Current Month	144,520	0	144,520

MI-163-1W-C011, Well #2-12

Lifetime Combined

0

Conversion factors

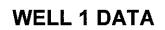
Since facility first injected

Current Month

Since facility first injected

365.25 days per year \div 12 months per year = 30.4375 days per month 30.4375 days per month \times 1440 minutes per day = 43,830 minutes per month

30.43/5 days per month \times 1440 minutes per day = 43,85	30 minutes per month
Calculations Whole number of months of injection	
lifetime number of months of injection × 4.	3,830 minutes/month = <u>482,130</u> minutes of injection
Lifetime combined injected volume 1,792,789	* 482,/30 minutes of injection
= 3.7	gpm average injection rate



SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS Injection Well I

	Month: Septemb	oer Year: 201 4	ļ.	
CHARACTERISTIC	LIMITATION	MINIMUM MONITORING FREQUENCY	MINIMUM REPORTING FREQUENCY	STATUS
Injection Pressure	765 psig maximum	continuous	monthly	726 psig
Annulus Injection Pressure	100 psig minimum	continuous	monthly	210 psig
Annulus/Tubing Diff	100 psig minimum above injection pressure	continuous	monthly	Graph attached
Injection Rate (Average both wells)	166 gpm	continuous	monthly	3.7 gpm
Injection Rate (Maximum instantaneous)	270 gpm	continuous	monthly	97.2 gpm
Sight Glass Level		continuous	monthly	Graph attached
Annulus Fluid Loss		monthly	monthly	0.0 gal
Cumulative Volume		daily	monthly	144,520 gal
Temperature	_	6-hour intervals	monthly	Graph attached
Corrosion Monitoring	٠.	monthly	monthly	Report attached
Repair and Maintenance		NA	monthly	Log attached
Toxicity Characteristic List		annually	monthly	NA
Fingerprint Analysis		per load	monthly	Sheets attached
Chemical Composition and Physical Characteristics of Injected Oilfield Brine		annually	annually	NA
pH of Injected Fluids		continuous	monthly	Graph attached

WELL 01 Monthly Data

Max		Max	Min	Max	Min	Max	Min	Мах	Min	Max
Sight Glass	S	Sight Glass	Annulus	Annulus	Injectate Injectate	Injectate	Flow	Flow	Differential	Differential
e Level		Level	Pressure	Pressure	Η	H	Rate	Rate	Pressure	Pressure
(III)	-	(III)	(PSIG)	(PSIG)			(GPIM)	(GPIM)	(PSIG)	(PSIG)
23.2	5	23.3	297.0	300.0	0.0	0.0	0.0	0.0	217.5	219.0
22.0	2	23.5	297.0	1026.0	0.0	0.0	0:0	97.2	277.5	363.0
22.0	7	23.6	240.0	1032.0	0.0	0.0	0.0	72.0	180.0	337.5
22.0	7	23.8	210.0	1050.0	0.0	0.0	0.0	76.0	210.0	345.0
	2	24.0	202.5	1050.0	0.0	0.0	0.0	76.0	210.0	343.5
23.7	7	24.0	210.0	225.0	0.0	0.0	0.0	0.0	210.0	210.0
		6.0	0.0	- 0 0 k	(5)(0				- 00	00
0.0	0	0.	0.0	0.0	0'0		0.0	0.0		*** **********************************
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1/ 1/6 1/6	Ť	19.2	253.5	255.0	1.5	7.2	0.0	0.0	. 525.0	255.0
		19,4	- 583 0	2556					\$125	
	Ť	19.5	253,5	255.0	0.0		6.0	0.0	252.0	755.0
	3	19.5	253.5	255.0	0.0	7.1	0.0	0.0	252.0	. 255.0
.0.0 19.0 19.4	6	4	246.0	252:0	0.6	7.5	0.0	-00	275	252.0
5Z. 07Z 08Z	. 23	23.5	0.552	1050.0	2.1.	1.9	0.0	36.0	2200	330.0
0 22.0	2	23.5	244.5	1035.0	1.7	7.9	2.0	36.4	213.0	322.5
23.0	2	23.8	202.5	327.0	1.8	7.0	0.0	0.0	202.5	315.0
23.0	2	23.0	285.0	298.5	3.5	11.5	0.0	0.0	282.0	300.0
0.0 23.0 2	2	23.0	274.5	285.0	5.7	11.2	0.0	0.0	277.5	285.0
23.0	2	23.1	276.0	279.0	8.4	13.9	0.0	0.0	276.0	277.5
720.0 23.2 2.	2	24.0	232.5	1042.5	9.5	13.6	0.0	32.0	232.5	322.5
	5	24.0	192.0	1048.5	0.0	0.0	0.0	32.0	133.5	345.0
720.0 22.0 23.9	23	.9	232.5	1020.0	11.8	12.7	0.0	32.0	210.0	315.0
720.0 22.0 23.2	23	.2	237.0	1020.0	11.2	11.8	0.0	20.0	202.5	330.0
	2;	23.1	382.5	390.0	13.9	13.9	0.0	0.0	336.0	340.5
	2	23.1	387.0	388.5	0.0	0.0	0.0	0.0	342.0	345.0
23.0		24.5	276.0	388.5	0.0	0.0	0.0	0.0	240.0	345.0
		23.4	276.0	1018.5	0.0	0.0	0.0	32.0	217.5	345.0

DATA DESCRIPTION

September 2014

This month's data is extrapolated from circle charts. The main hard drive on the SCADA system burned up on June 15th and the data reports were not able to be generated from that point via computer generation. The PLC control system is scheduled for upgrade and programming on the 30th of October. EGT also experienced a power outage on the dates of 9/7 through 9/11 knocking out the foundation fieldbus and causing a failure in the circle chart recorders that lasted through September 17th. Some of the recorded values during this period were reported from the deep well operator's records. No alarm conditions were triggered during the month of September since transmitters were functional when power was available but chart recorders were erratic.

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen - Well 1 Annulus Pressure

Channel #3

Green Pen - Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen - Well 2 Injection Pressure

Channel #2

Red Pen - Well 2 Annulus Pressure

Channel #3

Green Pen - Well 2 Flow Rate

Channel #4

Black Pen - Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen - Injection pH Well 1 & 2

Channel #2

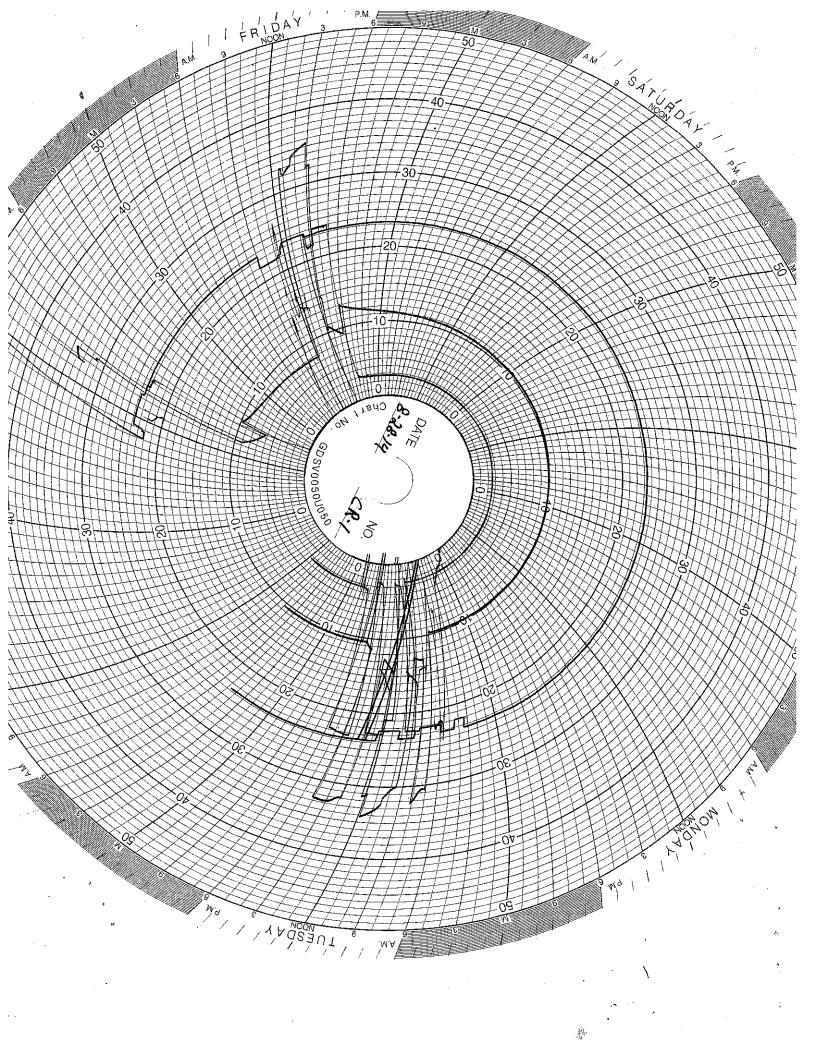
Red Pen - Well 1 Monthly Volume

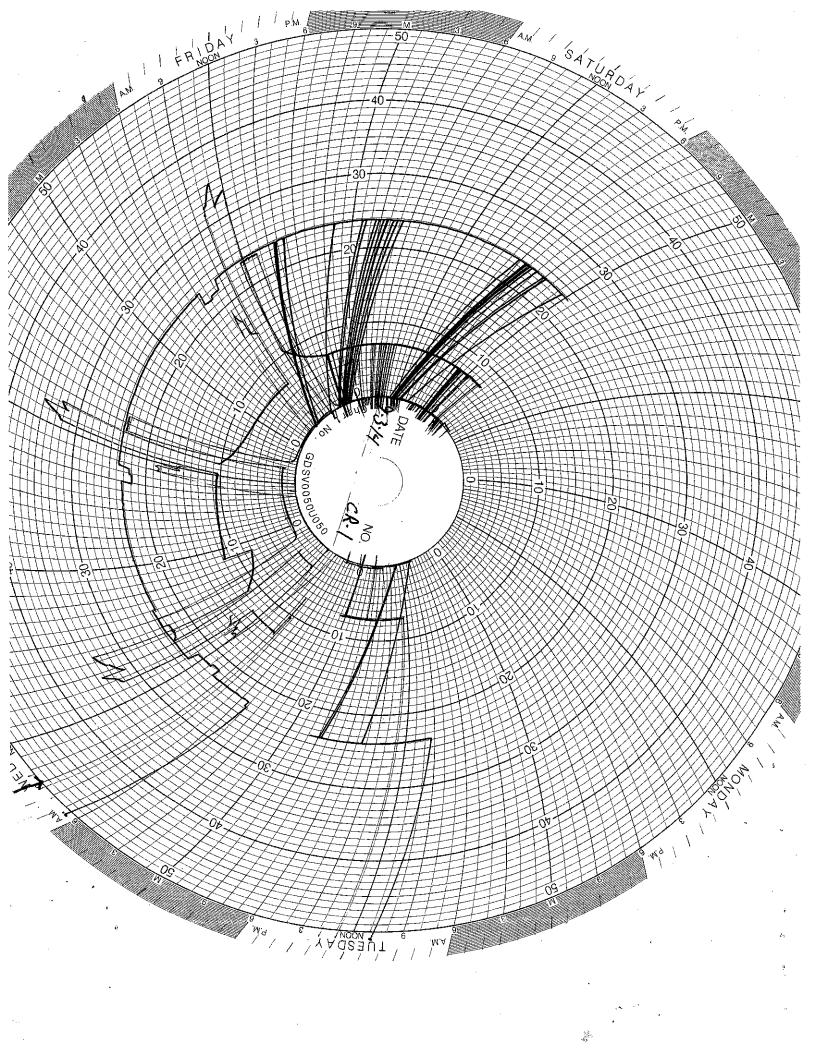
Channel #3

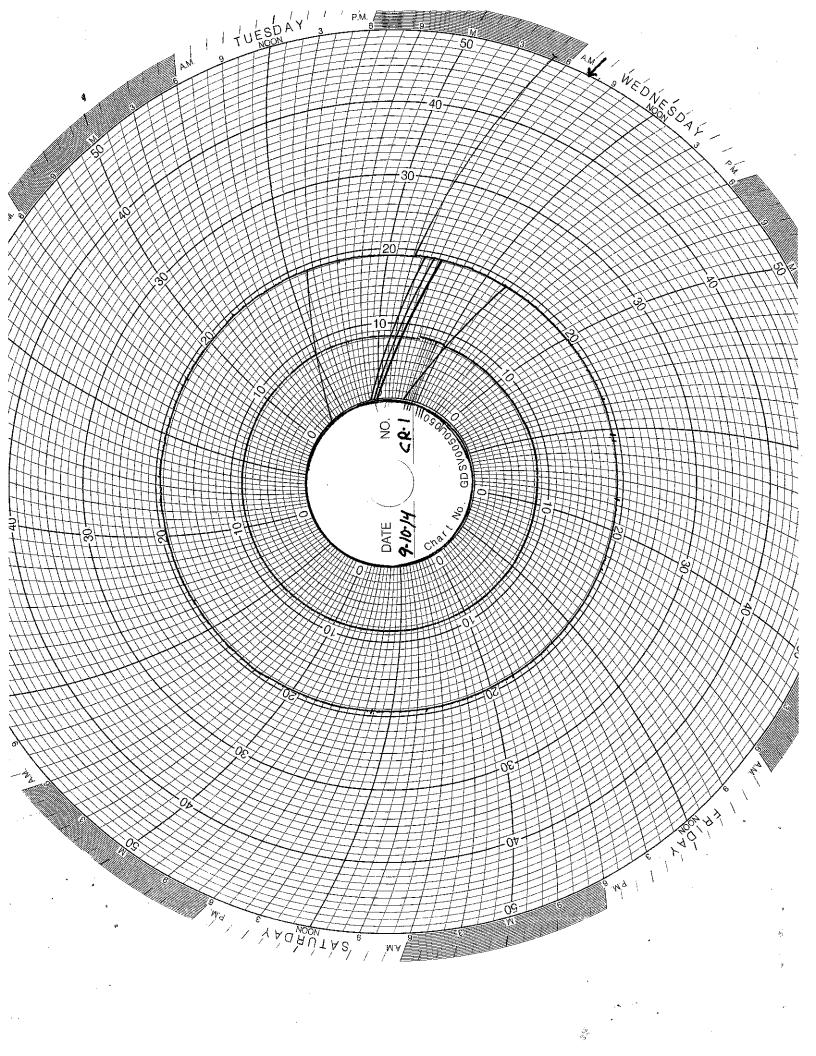
Green Pen - Well 2 Monthly Volume

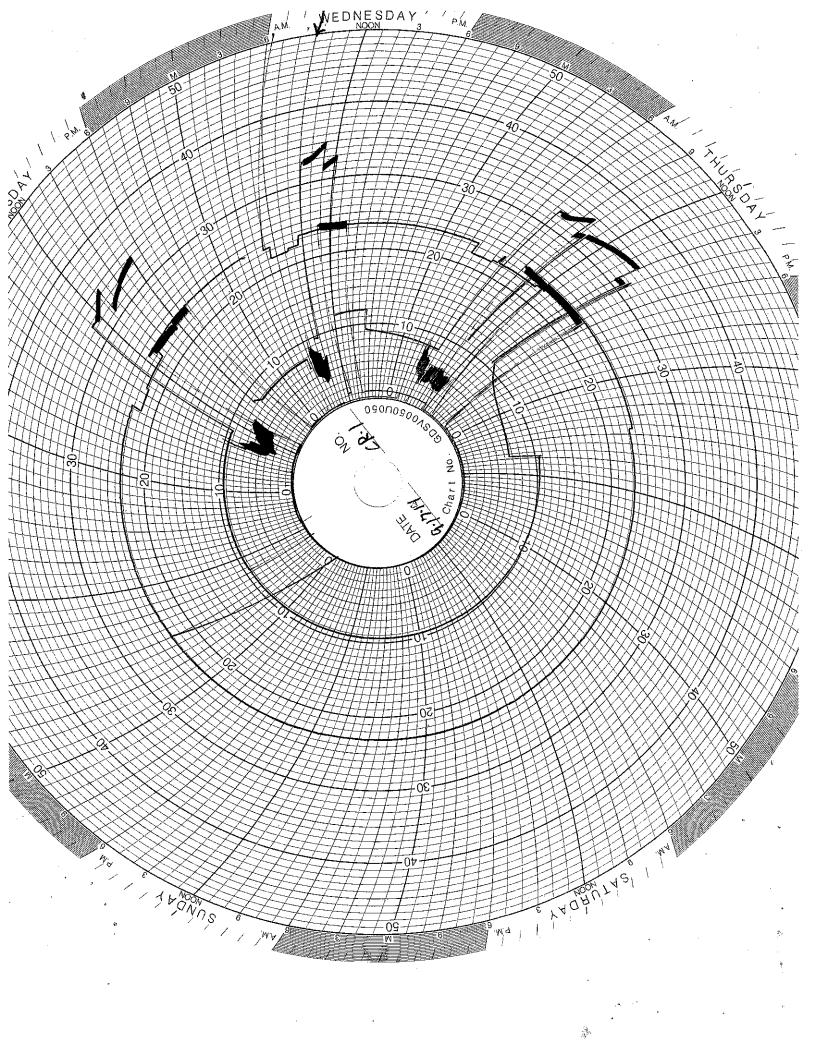
Channel #4

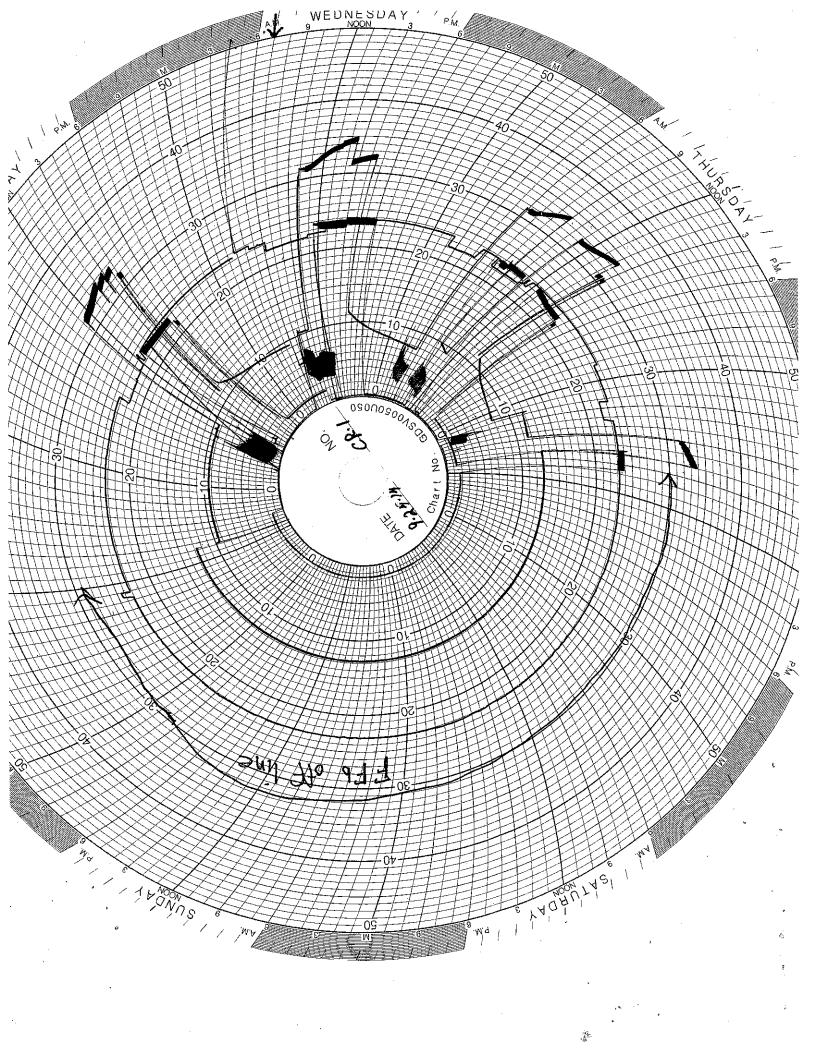
Black Pen - Temperature

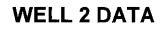












SUMMARY OF OPERATING, MONITORING AND REPORTING REQUIREMENTS Injection Well II

	Month: September	er Year: 2014		
CHARACTERISTIC	LIMITATION	MINIMUM MONITORING FREQUENCY	MINIMUM REPORTING FREQUENCY	STATUS
Injection Pressure	765 psig maximum	continuous	monthly	0 psig
Annulus Injection Pressure	100 psig minimum	continuous	monthly	240 psig
Annulus/Tubing Diff	100 psig minimum above injection pressure	continuous	monthly	Graph attached
Injection Rate (Average both wells)	166 gpm	continuous	monthly	3.7 gpm
Injection Rate (Maximum instantaneous)	270 gpm	continuous	monthly	0 gpm
Sight Glass Level		continuous	monthly	Graph attached
Annulus Fluid Loss		monthly	monthly	0.0 gal
Cumulative Volume	•	daily	monthly	0 gal
Temperature		6-hour intervals	monthly	Graph attached
Corrosion Monitoring		monthly	monthly	Report attached
Repair and Maintenance		NA	monthly	Log attached
Toxicity Characteristic List		annually	monthly	NA
Fingerprint Analysis		per load	monthly	Sheets attached
Chemical Composition and Physical Characteristics of Injected Oilfield Brine		annually	annually	NA
pH of Injected Fluids		continuous	monthly	Graph attached

Well 02 Monthly Data

Injection Date Pressure Pressure Pressure PSIG) 9/1/2014 0.00 9/3/2014 0.00 9/5/2014 0.00 9/5/2014 0.00 9/5/2014 0.00 9/5/2014 0.00 9/3/	e Pressure (PSIG) 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.	Sight Glass Level (in)	Sight Glass	Annulus	Annulus	Injectate Injectate	Injectate	Flow	Flow	Differentail	Differential
		Level (in)	ave	1					4		
		(in)	ניים	Pressure	Pressure	Hđ	품	Rate	Rate	Pressure	Pressure
	0.00 0.		(in)	(PSIG)	(PSIG)			(GPM)	(GPM)	(PSIG)	(PSIG)
	0.00	19.10	19.20	255.00	255.00	0.67	6.82	0.00	00.0	255.00	255.00
	0.00	19.10	19.15	255.00	255.00	0.52	0.55	0.00	0.00	255.00	255.00
	0.00	19.25	19.35	255.00	255.00	0.27	1.24	0.00	00.0	255.00	255.00
	0.00	19.50	19.55	261.00	261.00	1.12	1.18	0.00	00.00	261.00	261.00
	0.00	19.50	19.55	261.00	261.00	1.15	1.21	0.00	0.00	261.00	261.00
	0.00	19.30	19.50	261.00	261.00	1.15	1.18	00.0	0.00	261.00	261.00
		0.00	- 00.0	0.00	00.0	000	00.0	00.0	0.00		00'0
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		1950	ं ।S ≥0 = ।	30,00	30.00	1.64	2.73	00'0	00.0	30008	90 08
9/41/2014 🛌 9400			S 21,00 T		30.00	11194		0.00		90,06	30.00
9/12/2014 0.00.	0.00	653	19,00	00.06	00008	1.58	1.61	0000	000	90108	30.00
	000	10023	25100		30.06	1.50	1.61	900	0.00	1 3 CHO 2 -	30 00
	0000	0.0131	0/3/		0000	4.50	1.67	0.00	0,000	30,00	30.00
	00'0	11.75	90/65	- 30.00 ·		19.	1.00	00.0	0.00	- 400 00 s	
9/15/2012 19/906		3.50	70.	90.68	201010		8.03	0,000	0.00	30,00	843.00
	0.00	16.25			05-836	0.00	7.45	000	00.0	240.00	253.50
9/18/2014 0.00	00.0	18.25	18.50	240.00	241.50	0.00	7.58	0.00	0.00	240.00	241.50
9/19/2014 0.00	00.0	18.40	18.50	241.50	243.00	0.00	7.21	0.00	00.0	241.50	243.00
9/20/2014 0.00	0.00	18.40	18.50	241.50	243.00	0.00	0.00	0.00	0.00	241.50	243.00
9/21/2014 0.00	00.00	18.40	18.50	244.50	244.50	0.00	0.67	0.00	0.00	244.50	244.50
9/22/2014 0.00	0.00	18.50	18.70	241.50	249.00	0.00	0.00	0.00	0.00	241.50	249.00
9/23/2014 0.00	00.00	18.30	18.60	240.00	244.50	0.00	1.82	0.00	0.00	240.00	244.50
9/24/2014 0.00	00.00	18.10	18.40	240.00	240.00	1.18	1.52	0.00	0.00	240.00	240.00
9/25/2014 0.00	00.00	18.20	18.50	240.00	240.00	1.18	1.61	0.00	00.0	240.00	240.00
9/26/2014 0.00	00.00	19.20	19.20	258.00	264.00	1.45	1.48	0.00	0.00	258.00	264.00
9/27/2014 0.00	00.00	19.30	19.40	264.00	264.00	1.39	1.45	0.00	0.00	264.00	264.00
9/28/2014 0.00	00.0	19.30	19.60	264.00	270.00	1.21	4.09	0.00	0.00	240.00	270.00
9/29/2014 0.00	00.0	19.40	19.63	264.00	270.00	2.21	3.21	0.00	0.00	264.00	270.00
9/30/2014 0.00	00.00	19.30	19.50	255.00	264.00	2.79	4.85	00.0	0.00	255.00	264.00

Circle Chart Index

Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, Mi 48174

Chart Recorder #1

Channel #1

Blue Pen - Well 1 Injection Pressure

Channel #2

Red Pen - Well 1 Annulus Pressure

Channel #3

Green Pen - Well 1 Flow Rate

Channel #4

Black Pen – Well 1 Annulus Tank Level

Chart Recorder #2

Channel #1

Blue Pen - Well 2 Injection Pressure

Channel #2

Red Pen - Well 2 Annulus Pressure

Channel #3

Green Pen - Well 2 Flow Rate

Channel #4

Black Pen - Well 2 Annulus Tank Level

Chart Recorder #3

Channel #1

Blue Pen - Injection pH Well 1 & 2

Channel #2

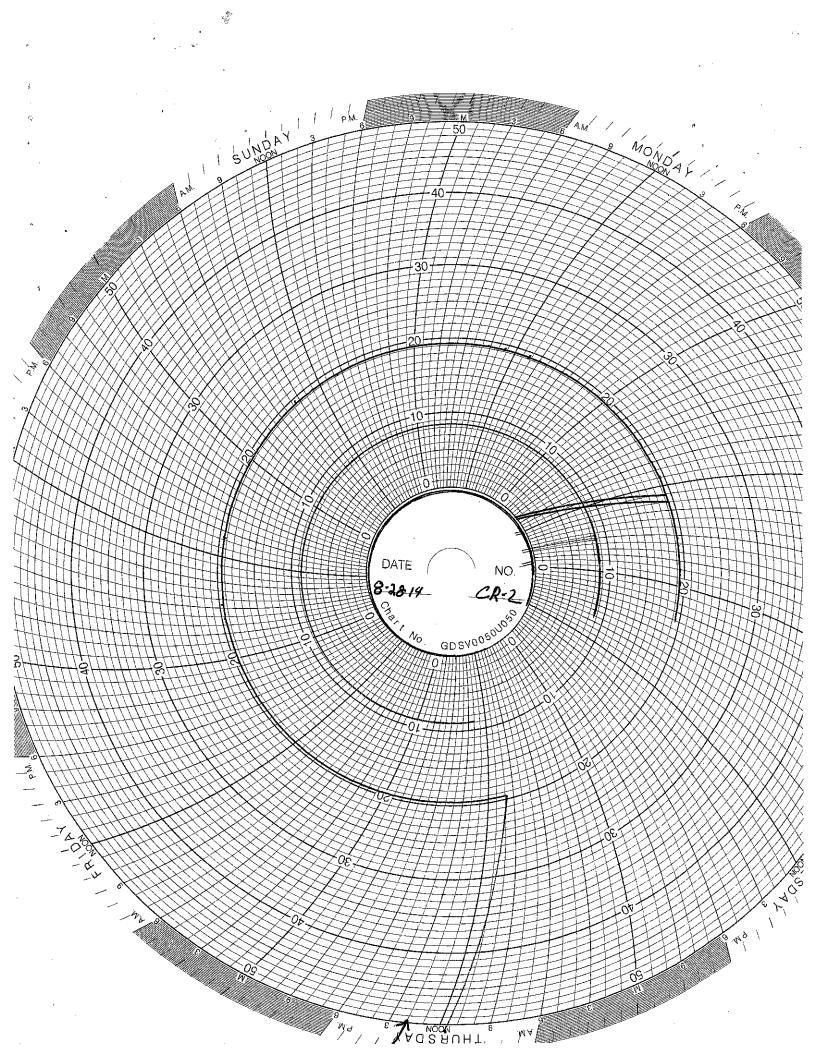
Red Pen - Well 1 Monthly Volume

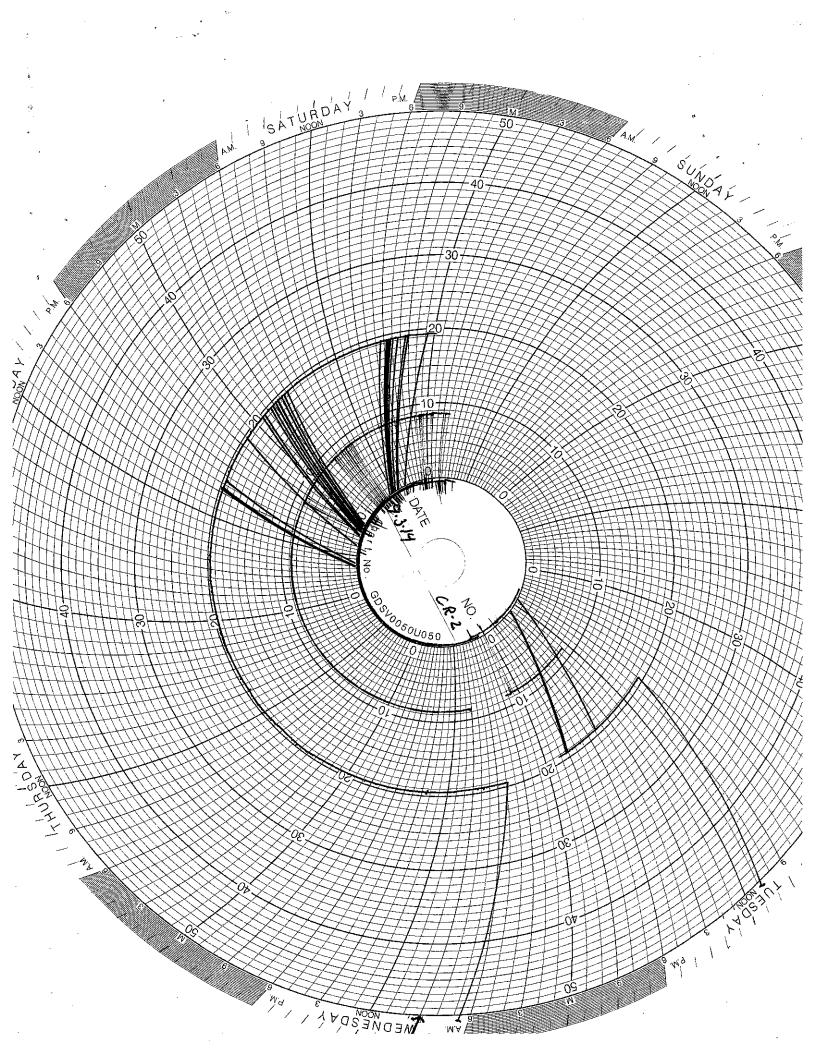
Channel #3

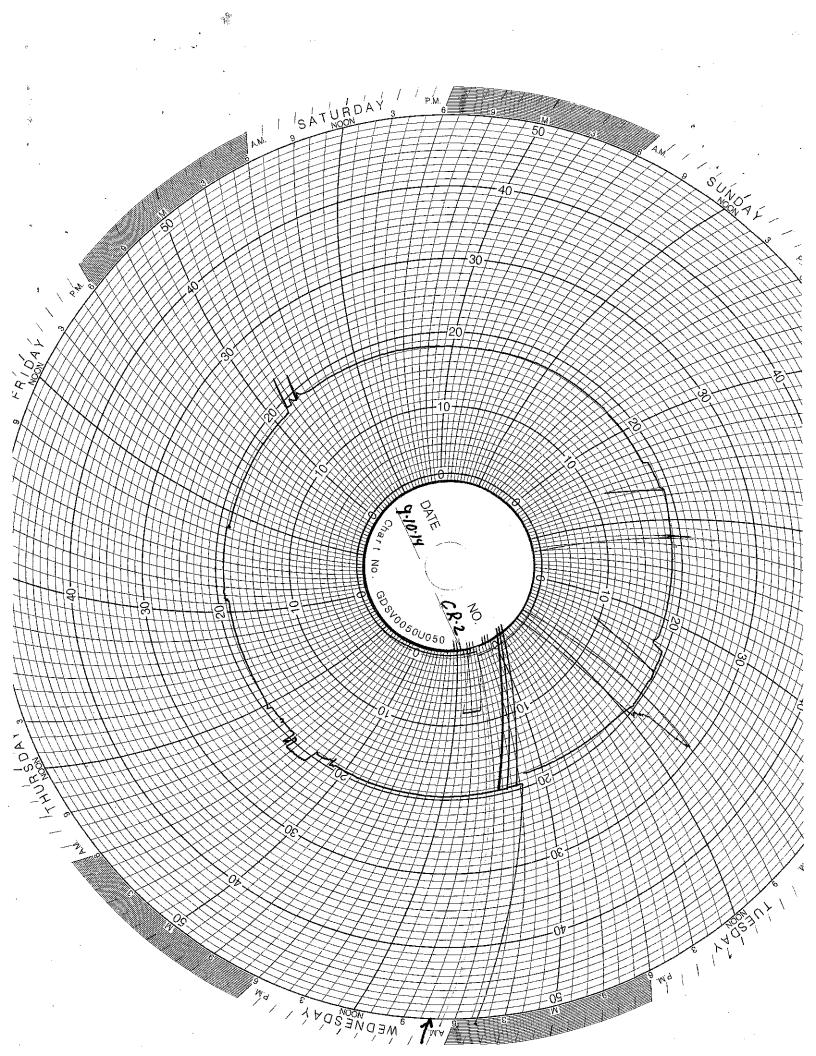
Green Pen - Well 2 Monthly Volume

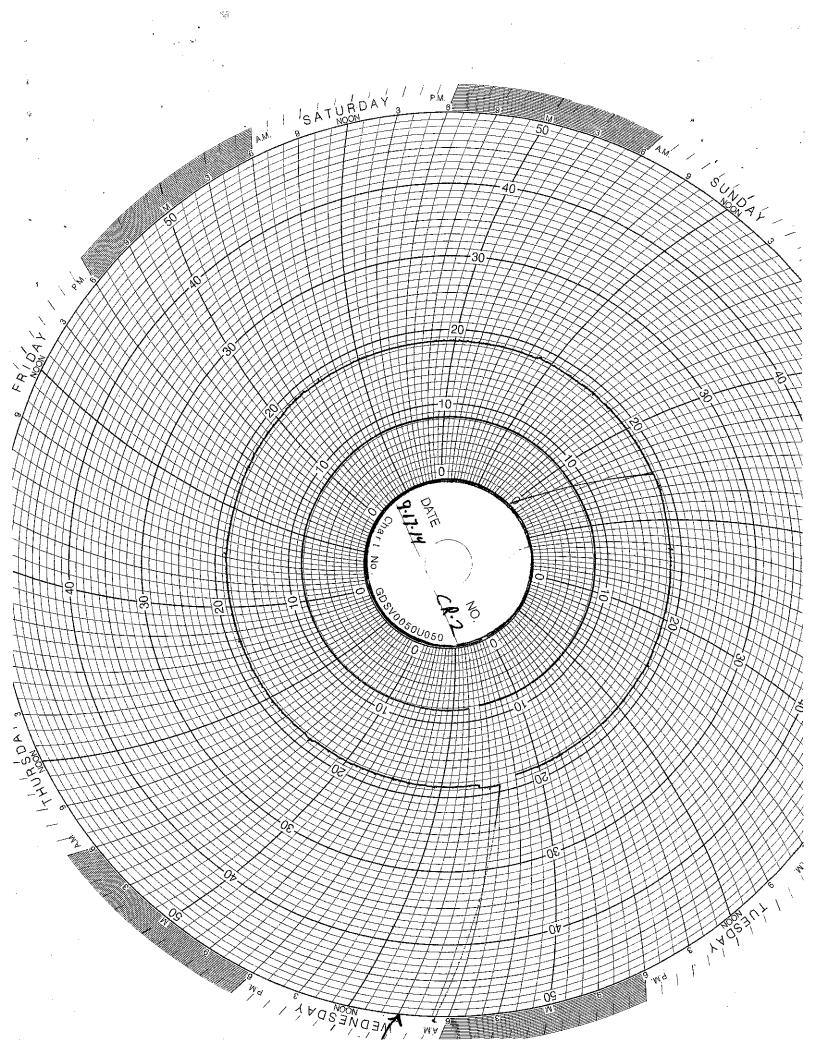
Channel #4

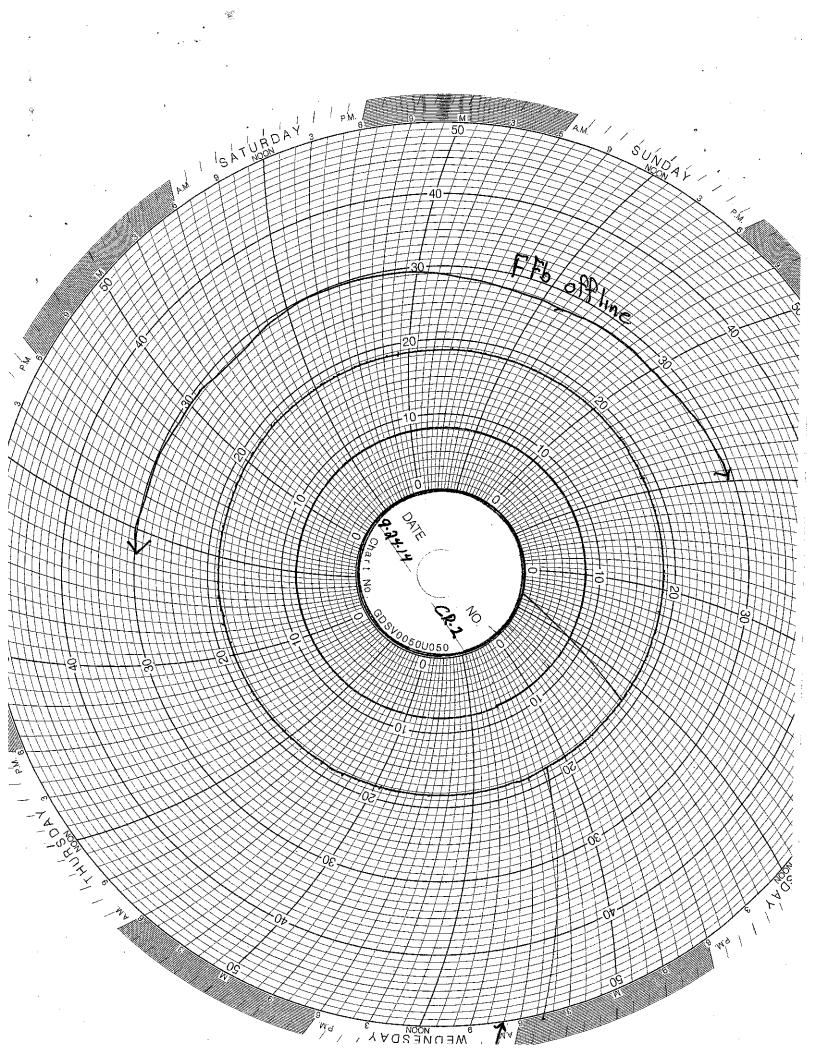
Black Pen - Temperature

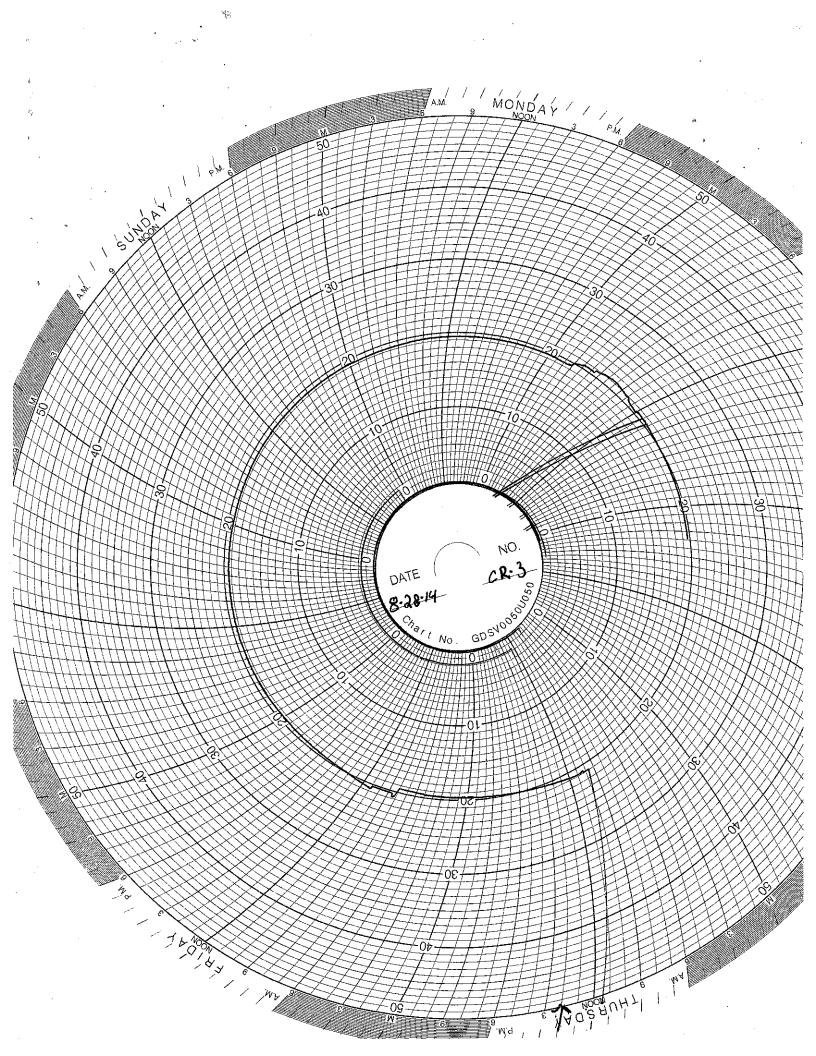


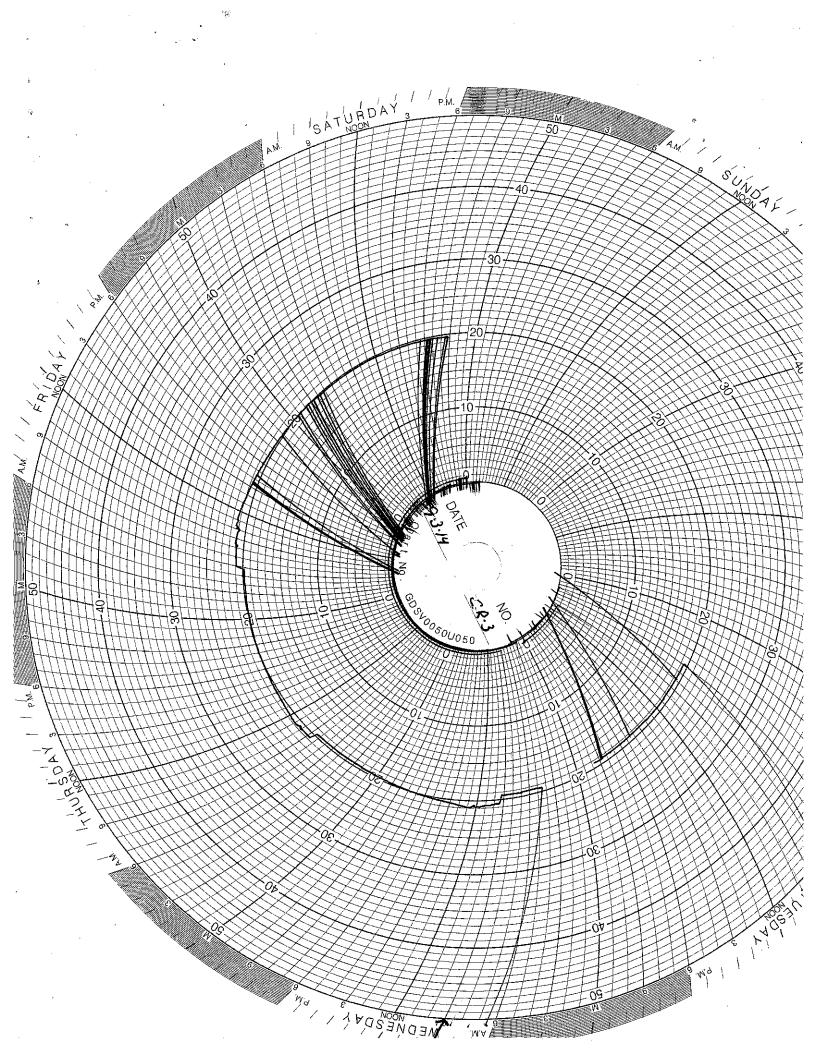


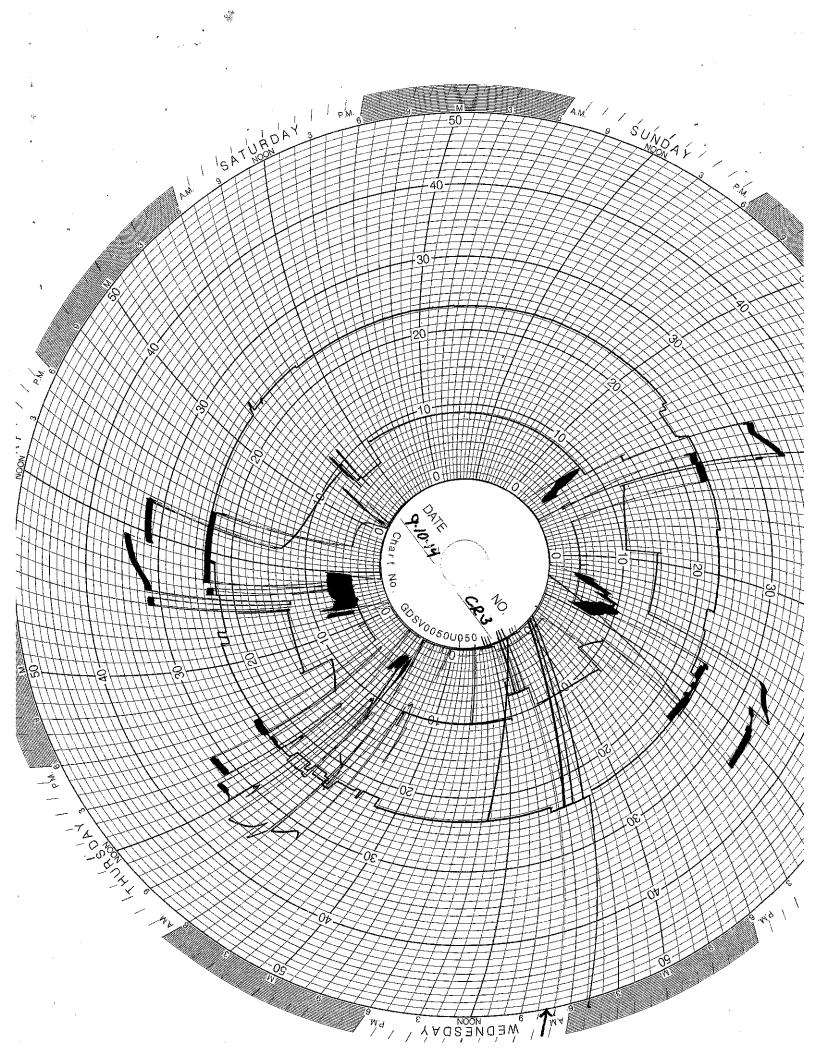


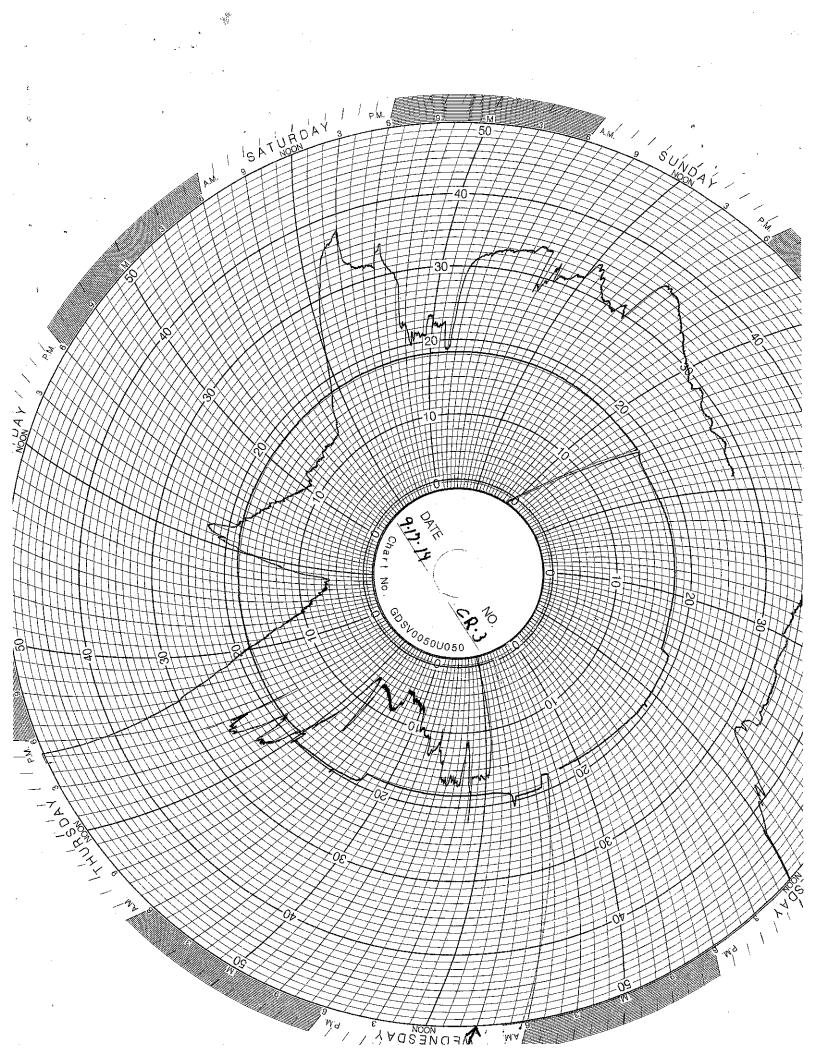


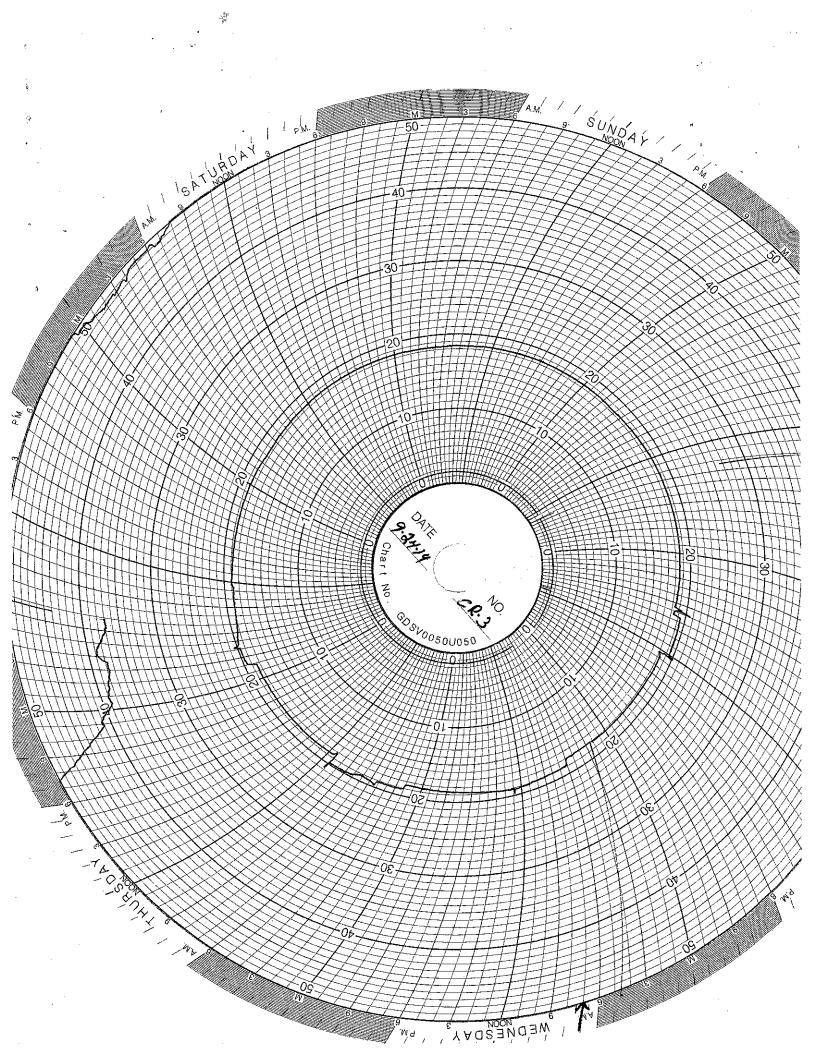








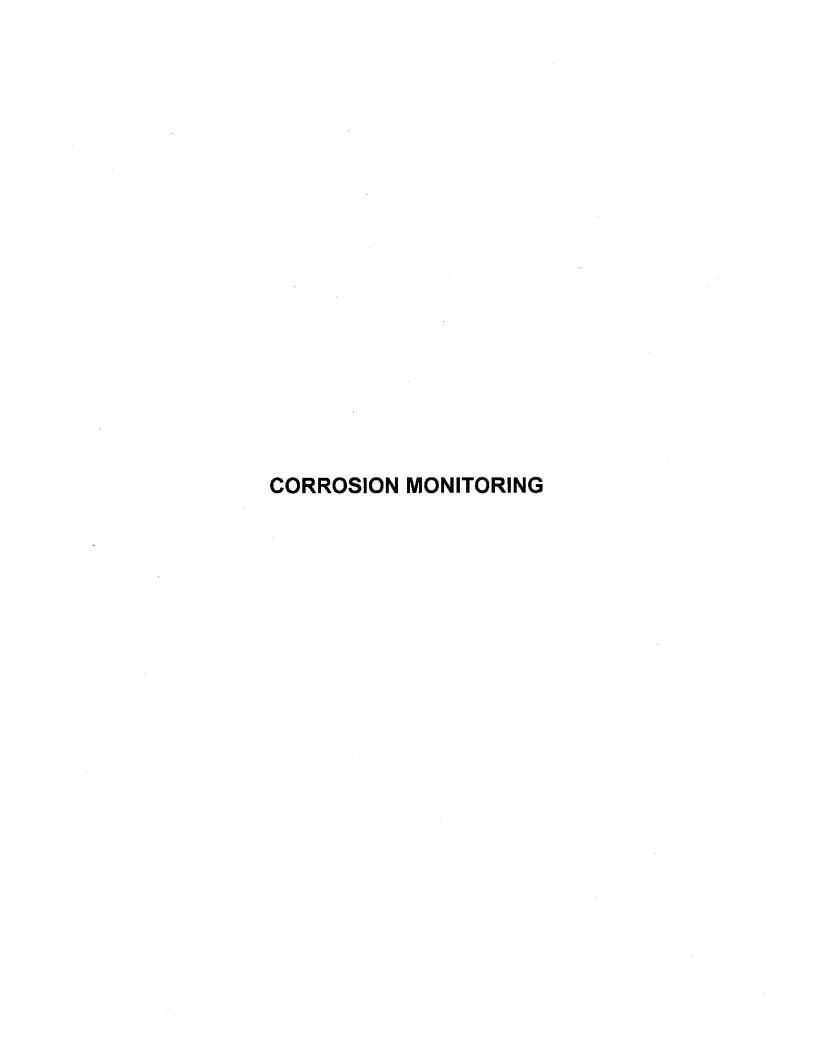




MAINTENANCE LOG

UIC Monthly Maintenance Log

No maintenance was performed in the month of September



CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

The fiberglass coupon is Red Box 2000 type and is 2-1/2 inches long by 1/2 inch wide and 1/4 inches thick. It is a dark orange (rust) in color with a glossy shine on one side a polished look on the opposite side and the cut edges look sanded.

Hastelloy

The hastelloy coupon is identified as C276 with serial number 1. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Stainless Steel

The stainless steel coupon is identified as 316L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Fiberglass Coupon

Date: 08/06/2013

Wt.: 7.309 Grams

Prior to Waste Exposure

0276

Hastelloy Coupon

ID: C267 (1)

Date: 08/06/2013

Wt.: 13.330 Grams

Prior to Waste Exposure

316L C1562

Stainless Steel Coupon

ID: 316L/C1562

Date: 08/06/2013

Wt.: 10.848 grams

Prior to Waste Exposure

CORROSION MONITORING COUPON VISUAL DESCRIPTION

Fiberglass
No pitting or cracking present on this coupon. Slight color change

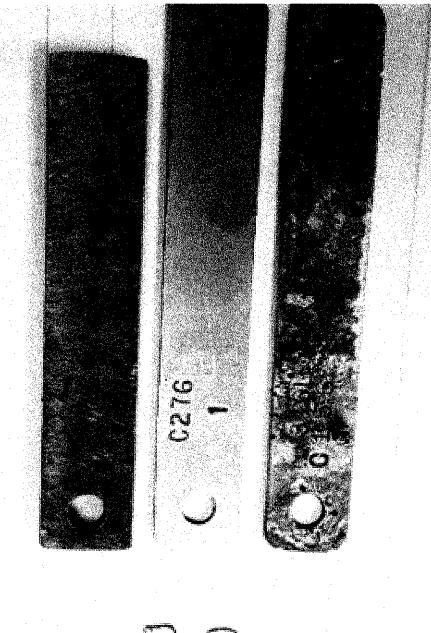
Hastelloy

September 17, 2014

No pitting or cracking present on this coupon.

Stainless Steel

Pitting and deterioration has taken place but stainless steel is not part of the EGT well construction.





October 2, 2014

- TEST REPORT -

PN 118325 PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

John Frost Environmental Geo-Technologies, LLC 28470 Citrin Drive Romulus, MI 48174

Prepared By

dielissa Martin

Sf. Project Technician

Approved B

Jim Drummond

Physical & Plastics Testing, Manager

A Testino Lab

An A2LA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02 ISO 9001:2008 Registered

ISO 9001:2008 Registered

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The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by AZLA for the test methods listed on the attached scope.



Testing. Development. Problem Solving.

October 2, 2014

John Frost Environmental Geo-Technologies, LLC

Page 2 of 2 PN118325

SUBJECT:

Barcol Hardness on one material.

PO# Attn; John Frost

RECEIVED:

One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant

97

Prepared By

Melisee Martin Sr. Project Technician Approved By:

Scott W. Yates

Plastics Testing Assistant Manager

20450 HARPER AVENUE HARPER WOODS, MI 48225 PHONE (313) 885-3535 FAX (313) 885-1771

Report Date: November 15, 2013
Test Date: October 15 - November 14, 2013

Report #1310-77651
Performed for:
Environmental Geo-Technologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

<u> Hardness</u>

Specimen 1

90

Specimen is being returned with this report for further evaluation.

Hesquiere egastic testing, inc

M. W. Chesquiera

President

MWG/kni

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TOTAL 1 PAGES

20450 HARPER AVENUE HARPER WOODS, MI 48225 PHONE (313) 885-3535 FAX (313) 885-3771

Report Date: February 17, 2014 Test Date: February 14 - 17, 2014

Report #1402-78036
Performed for:
Environmental Geo-Tachnologies
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card),

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Mardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1 90

र्वे राज्यविक प्रात्मिक्ष क्षेत्रकेष्ठ अस्तर्भ प्रत्ये । राज्या । राज्या ।

Specimen was returned to the client on February 17, 2014

GHESQUIERE PLASTIC TESTING, INC.

CONTRACTOR CONTRACTOR STANDARDS FACTOR

M. W. Chesquieze -

President

MWG/dm

Our letters and reports are for the exclusive use of the client to whom they are addressed, and shall not be reproduced except in full without our written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The latters and reports and the name of Gresquere Plastic Testing, inc., are not to be used under any chountainness in advertising to the general public. Samples, extra and related test maintais will be desheaded 30 days after the date of the final report unless the client indicates otherwise in writing.

TOTAL 1 PAGES

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20450 HARPER AVENUE HARPER WOODS, MI 48225 PHONE (313) 885-3535 FAX (313) 885-1771

Report Date: June 16, 2014 Test Date: June 13 - 16, 2014

Report #1406-78499
Performed for:
Environmental Geo-Technologies, LLC
28470 Citrin Drive
Romulus, MI 48174

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(p. O. #Credit Card).

WORK PERFORMED:

Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Hardness test was performed in accordance with the procedures of ASTM D2583-13. One specimen was tested.

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

<u> Hardness</u>

Specimen 1

85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere

President

MWG/dm

CORROSION MONITORING PLAN COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
	(C267)	(316L)	(Redbox)	
12/19/2013	13.330 g	10.848 g	7.309 g	Initial Mass @ start up
2/21/2014	13.329 g	10.846 g	7.306 g	
3/10/2014	13.327 g	10.845 g	7.300 g	
4/18/2014	13.324 g	10.841 g	7.272 g	
5/30/2014	13.328 g	10.818 g	7.226 g	
6/30/2014	13.321 g	10.337 g	7.196 g	
7/11/2014	13.323 g	10.304 g	7.196 g	·
8/12/2014	13.328 g	10.045 g	7.182 g	
9/17/2014	13.321 g	9.997 g	7.090 g	
		_	_	

INJECTION FINGERPRINTS

The state of the s	LUCE I OLIVIAL
SECEIVING INFORMATION	"在中间的大型"。
Date	19/2/14
Receiving ID#	109021401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	EGT
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	QD:



TUNENSWEET OF SERVICE OF THE SERVICE				
LAB INFORMATION All Westers Coments			Ölffeld Brines Only	
Compatible? (RT#)	(Yes)	. No	Barium	
PCBs (ppm)(Oily Waste				,
Only)?			Calcium	,
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)		40	Magnesium	
pH (S.U.)	12.4	 	Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)	1.		Carbonate	
Specific Gravity	1.04	4	TDS	2.37
Physical Description		<i>y</i> — — —	Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No	Canato	
Temperature	78	· F		
Conductivity	44.3		<u> </u>	
% Solids	2.37			
Turbidity	Yes	No		
Color (visual)	, 00	140		
TSS (%)	(0)			
Radiation Screen (as needed)			Α .	·
Lab Signature	Bod		AR	
· · · · · · · · · · · · · · · · · · ·	RECO.	1-01 - Pag	e 1	

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVANISINFORMATION		
Date	9/2/1	4
Receiving ID#	T 6902	1402
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	EGT	
Client		
Transporter		
Time in same		
Time out		
Received by	J.H.	g .
Sampled by	N.A.	h



i i					
	LASINFORMATION AND AND AND AND AND AND AND AND AND AN			Ollfield Brittes Only	e unit de la companya
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste				
-	Only)?			Calcium	<u> </u>
	TOC (ppm)(CC Waste Only)?			Total Iron	
٠	Flash Point (°F)	142	>	Magnesium	
-[pH (S.U.)	2.4		Sodium Chloride	
	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)			Carbonate	
٠.,	Specific Gravity	1.04		TDS	2.07
	Physical Description	3		Resistivity	7,
	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No		
	Temperature	760	* = -		
	Conductivity	40.5	~5		
\neg	% Solids	2:0			
	Turbidity	Yes	No		
	Color (visual)	" , <u> </u>			
-[TSS (%)	(0,)			
	Radiation Screen (as needed)		α.		
_	Lab Signature				

		ZBAB
RECEIVING MEDRIATION.		
Date	9/3	114
Receiving ID#	1396	521451
Manifest# Line:	1	<u> </u>
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	E	
Client		
Transporter		
Time in		
Time out		
Received by	JH	
Sampled by	8	Ü,



		· · · · · · · · · · · · · · · · · · ·	_1	·
LABINFORMATION All Waste Shipments			Ölheld Brines Only.	
Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste Only)?			Calcium	
TOC (ppm)(CC Waste Only)?		<u> </u>	Total Iron	
Flash Point (°F)	> 140		Magnesium	
– pH (S.U.)	16		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.05		TDS	3.07
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No.		
Temperature	76F			
Conductivity	60.0 ~	. <		
% Solids	3,0	· · · · · · · · · · · · · · · · · · ·		
Turbidity	Yes	No		
Color (visual)			· · · · · · · · · · · · · · · · · · ·	
TSS (%)	(0.)			
Radiation Screen (as needed)	* 1			
Lab Signature	A	9) ///	

		Z N S N
RECEIVING MECRIMATIONS		
Date	9/4/	114
Receiving ID#	1098	41401
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	EG	7
Client		•
Transporter		
Time in	·	
Time out		`
Received by	J.H.	-
Sampled by	DA	



	Participant Alexander and the second			_	
	LAB INFORWATION AND AND AND AND AND AND AND AND AND AN			Oiffield Brines Digiv.	
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste				
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?			Total Iron	
	· desiri onic ()	> 140	5.4	Magnesium	
_	pH (S.U.)	1.5		Sodium Chloride	
ĺ	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)			Carbonate	
7	Specific Gravity	1.07		TDS	422
	Physical Description	·		Resistivity	1
	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No.		
	Temperature	77	04		
-	Conductivity	83.3.			
1	% Solids	4.2	•		
L	Turbidity	Yes	No		
L	Color (visual)				
-	TSS (%)	<0	1		
	Radiation Screen (as needed)	A	#		
	Lab Signature		1-01 - Pag		
		1 12002	*-01 - Lag	ят <u>"</u>	

	SOME I CITIBI
RECEIVING INFORMATIO	Vicinity in the second
Date	9/5/14
Receiving ID#	I 0905140
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval#	
Generator	£6T
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	T TO ALL



		<u> </u>			
	LABINFORMATION All Waste Stripments			Ölffeld Saines Cirlly	
	Compatible? (RT#)	/Yes)	· No	Barium	
	PCBs (ppm)(Oily Waste				
	Only)?			Calcium	·
	TOC (ppm)(CC Waste Only)?			Total Iron	
ەنىب	Flash Point (°F)) 140	5	Magnesium	
_	pH (S.U.)	2.4		Sodium Chloride	
.	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)		-	Carbonate	
	Specific Gravity	,07		TDS	2 37
	Physical Description			Resistivity	
1	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No.		
	Temperature	7701			
-	Conductivity	43.7	_ <		
1	% Solids	7 3		***************************************	
	Turbidity	Yes	No		
	Color (visual)			7	
	TSS (%)	ζο.	1	· · · · · · · · · · · · · · · · · · ·	
	Radiation Screen (as needed)		1	A	
	Lab Signature	18	ID	K	

I WALLENO	AWF LOW	ZOWO.
RECEIVANGINFORWATION		
Date	9/9/	14
Receiving ID#	70905	1401
Manifest# Line:		1101
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	8651	· · · · · · · · · · · · · · · · · · ·
Client		
Transporter		
Time in		
Time out		
Received by	J. H.	_
Sampled by	- hA	



	· · · · · · · · · · · · · · · · · · ·		<u> </u>	
LABINECRIMITION AND AND AND AND AND AND AND AND AND AN	3/2		Otheld Brines Only	A STATE OF THE STA
Compatible? (尺寸#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	140		Magnesium	
pH (S.U.)	5.2		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1,14		TDS	507
Physical Description			Resistivity	0,8/
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No.		
Temperature	72°F			
Conductivity	116.7.			
% Solids	5.8			
Turbidity	Yes	No		
Color (visual)		140		
TSS (%)	(0.)	·	<u> </u>	
Radiation Screen (as needed)			٨	
Lab Signature	And	-01 - Pag		

	WALL OF	FRAT
RECEIVANGIMEORMATION	美国大学	
Date	9/11	114
Receiving ID#	10911	1451
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval#		
Generator		
Client		·····
Transporter		
Time in		· · · · · · · · · · · · · · · · · · ·
Time out		
Received by	J. +).	
Sampled by	MA	



The latest the second s	-			— ↓	
LAB INFORMATION: All Waste Shipmants				Offield Stines Only	
Compatible? (RT#)	Yes	<i>)</i>	No	Barium	
PCBs (ppm)(Oily Waste					
Only)?				Calcium	
TOC (ppm)(CC Waste Only)?				Total Iron	
Flash Point (°F)	<u> </u>	140)	Magnesium	
- pH (S.U.)	129	\$		Sodium Chloride	
Cyanides? (mg/L)				Bicarbonate	
Sulfides? (ppm)			-	Carbonate	
Specific Gravity	1.00	>		TDS	0.2 7
Physical Description				Resistivity	0.27,
Stream Consistency	Yes		No	Sulfate	
Oil in Sample	Yes		No	- Canado	
Temperature	69	-			
Conductivity	3.5,	_<			
% Solids	0.2				
Turbidity	Yes		No		
Color (visual)			140		
TSS (%)	50	<i>y</i>			
Radiation Screen (as needed)	<u>, ,</u>	<u> </u>	1		
Lab Signature		R	>		
		COA O	N. D	INV V	

		ZBAR
RECEIVING INFORMATION		
Date	9/10/	[1]
Receiving ID#	1091	DIVOI
Manifest# Line:	7	
Land Ban Cert included	Yes	No
EGT Approval#		-
Generator	,	,
Client		
Transporter		~
Time in		
Time out		
Received by	J.A.	9
Sampled by		



				_1	
	LAB INFORMATION. A STANDARD ST			Oilfield Bruhes Only	
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste				
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?			Total Iron	
الكسيمة	Flash Point (°F)) [4	10	Magnesium	
•	pH (S.U.)	7.0		Sodium Chloride	
	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)		· · · · · · · · · · · · · · · · · · ·	Carbonate	
*****	Specific Gravity	101		TDS	0.27
	Physical Description			Resistivity	- for the second
	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No		
	Temperature	70°F			
-	Conductivity	0.5	<		
1	% Solids	0 2	-		
{	Turbidity	Yes	No		
	Color (visual)				
-	TSS (%)	< 01		N	
	Radiation Screen (as needed)			<u> </u>	
_	Lab Signature	1.6)//		
		REC04-	01 – Page	21	

AN EXPERIENCE OF THE PROPERTY	LATE I ON	ZBAB
RECEIVINGILIFORMATICNE		
Date	9/16	//L)
Receiving ID#	1.09161	421
Manifest# Line:		-
Land Ban Cert included	Yes	No
EGT Approval#		
Generator		
Client		
Transporter		
Time in		······································
Time out		
Received by	J.H.	
Sampled by	刀不	4



			 -		•
	LAB INFORMATION All WasterShipments			Oinelossines Only	
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste				
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?			Total Iron	
	Flash Point (°F)	140		Magnesium	
*****	pH (S.U.)	1 13.2		Sodium Chloride	
	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)			Carbonate	
4	Specific Gravity	107		TDS	6.07
	Physical Description		-	Resistivity	0.0
ı	Stream Consistency	Yes	No	Sulfate	
- [Oil in Sample	Yes	No	Canaco	
[Temperature	71°F			
	Conductivity	120,4	5		
4	% Solids	1.0			
	Turbidity	Yes	No		
ſ	Color (visual)		140		
-[TSS (%)	101			
T	Radiation Screen (as needed)	1 -: 1			
_ ^	(au nicoded)		$-\Lambda^{\perp}$		
	Lab Signature		- Marie Contraction of the Contr	XXXX	
	-		- 1 3 - 2		

REC04-01 - Page 1

	FLE LOW	IAI
HRESENANG INFORMATION		
Date	9/1-	7/16/
Receiving ID#	TOAIT	1901
Manifest# Line:		- / / / /
Land Ban Cert included	Yes	No
EGT Approval #		
Generator	861	· · · · · · · · · · · · · · · · · · ·
Client		
Transporter		
Time in	·	
Time out		
Received by	JHO	
Sampled by	NAK	



(ABRIDADA AND AND AND AND AND AND AND AND AND	1 A A	<u> </u>	→ ·	•
LAB IMPORMATION. All Waste Shipments			Ciffield Brines Cely:	
Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste	Vacania de la constantia de la constanti			
Only)?			Calcium	**
TOC (ppm)(CC Waste Only)?			Total Iron	
→ Flash Point (°F)	2140		Magnesium	
– pH (S.U.)	1 13.3		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.10		TDS	
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	69°F			
Conductivity	11115	€"		
% Solids	71	<u> </u>		
Turbidity	Yes	No		·
Color (visual)		140		
TSS (%)	101			
Radiation Screen (as needed)	J. 1		1	
Lab Signature	1 1 1		MIX	
		1-1	/ //	

RECEIVENCINFORMATION	
Date	9/18/14
Receiving ID#	IO918/401
Manifest# Line:	20.3
Land Ban Cert included	Yes No
EGT Approval #	
Generator	E6T
Client	
Transporter	
Time in	
Time out	
Received by	J.H., 1
Sampled by	NA



•		T					
	LAB INFORMATION AND AND AND AND AND AND AND AND AND AN			a a		Oiffeld Binnes Only	
	Compatible? (RT#)		Yes)		No	Barium	
	PCBs (ppm)(Oily Waste	П					
	Only)?	Ц				Calcium	
	TOC (ppm)(CC Waste Only)?					Total Iron	
مت	Flash Point (°F)		>	14	0	Magnesium	
_	pH (S.U.)		13.	2		Sodium Chloride	
	Cyanides? (mg/L)					Bicarbonate	
	Sulfides? (ppm)					Carbonate	
_	Specific Gravity	П	1.0	7		TDS	5.5 7
	Physical Description					Resistivity	
	Stream Consistency		Yes		No	Sulfate	
	Oil in Sample		Yes		No		
	Temperature	\prod	710.	F		,	
-	Conductivity	П	110.	7	,5		
٦	% Solids	iΤ	5.6	·	-		
[Turbidity	П	Yes		No		
	Color (visual)	Т					
-	TSS (%)		0.1				
	Radiation Screen (as needed)					1	
~	Lab Signature		8				

REC04-01 - Page 1

	Service Company	181
RECEIVING INFORMATION :		
Date	9/23	174
Receiving ID#	10923	THAI
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	EGT	
Client		
Transporter		,
Time in		·
Time out		
Received by	J. H.	
Sampled by	NA	



		- 	6 10	<u> </u>	•
	LAB INFORMATION All Waste Shipments			Olitield Stiffes Only	
	Compatible? (RT#)	Yes	No	Barium	
	PCBs (ppm)(Oily Waste		·-····································		
	Only)?			Calcium	
	TOC (ppm)(CC Waste Only)?	6-		Total Iron	
القصيمة	THE THE COURT OF T) 14	10	Magnesium	
-	pH (S.U.)	13.	2_	Sodium Chloride	
	Cyanides? (mg/L)			Bicarbonate	
	Sulfides? (ppm)			Carbonate	
Mayo:	Specific Gravity	1.07		TDS	6.07
	Physical Description		· · · · · · · · · · · · · · · · · · ·	Resistivity	0.07
	Stream Consistency	Yes	No	Sulfate	
	Oil in Sample	Yes	No		
	Temperature	7004			
4	Conductivity	120.3			
4	% Solids	6.0			
	Turbidity	Yes	No		
	Color (visual)				
-	TSS (%)	(0.	1		
	Radiation Screen (as needed)				
-	Lab Signature		4		
		RECO	4-01 — Þage		

HRECEIVANICALFORWATION	
Date	9/24/14
Receiving ID#	5.09241401
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval#	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	T.H.
Sampled by	TOTAL



	1 10 264		•
LAS INFORMATION All Waste Shipments	ST AND PE	Orreld Spres Only.	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste		is carrotty	
Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	140	Magnesium	
pH (S.U.)	13.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.57	TDS	(0.)7.
Physical Description		Resistivity	<u> </u>
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No	Cando	4. The second se
Temperature	70°F		
Conductivity	122,7,5	<u> </u>	
% Solids	(0,)		
Turbidity	Yes No		
Color (visual)	140		
TSS (%)	/ 0 \		
Radiation Screen (as needed)	<u> </u>		<u> </u>
Lab Signature		Ah	
	REC04-01 - Pa	ge 1	· ·

PEGELVING I FORMATIO		Z000
Date	9/25	<u> </u>
Receiving ID#	1092	
Manifest# Line:		9 2 - 15 (2) 8
Land Ban Cert included	Yes	No
EGT Approval#		
Generator	86	T
Client		
Transporter		-,
Time in		
Time out		
Received by	JA	
Sampled by	014	7



				•
LAB INFORMATION All Waster Shibmans			Oitreid Banes Only	
Compatible? (RT#)	Yes)	No	Barium	
PCBs (ppm)(Oily Waste				
Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	> 140)	Magnesium	
pH (S.U.)	1112	·	Sodium Chloride	
Cyanides? (mg/L)	ļ <u>.</u>		Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.05		TDS	3.0%
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	73°+			
Conductivity	60.5	~ S		
% Solids	3.0			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	< 0.	1		
Radiation Screen (as needed)				
Lab Signature		HERELY WAR	loca //	4

REC04-01 Page 1

WASTE STREAMS CHARACTERIZATIONS