

February 29, 2016

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 twenty-seventh Monthly Report in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011).

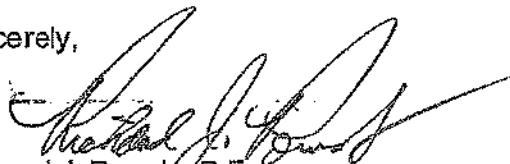
EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a - i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

EGT also hereby timely submits its tenth Injection Fluid Analyses (for January, 2016) identified on both Pages A-3 of 3 also in conformance with EGT's two EPA UIC permits with the attached "Data Summary Sheet" from a contract laboratory, Ann Arbor Technical Services, Inc., and, those results demonstrate compliance with all of the limits for each of the chemical entities ("Names") identified on Page A-3 of 3 for F039 waste which EGT accepted in November.

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. Powals, P.E.  
Vice-President

cc: J. Frost (EGT), T. Athans (EGT), P. Sullivan (EGT)

att.

ryp022916/EGT EPA Monthly Report-January, 2016

**AVERAGE INJECTION RATE**

**Calculation of Average Injection Rate**

CURRENT REPORTING YEAR 2016

CURRENT REPORTING MONTH JANUARY

Date (month, year) of the first injection into either well at the Citrin Road Facility NOVEMBER 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
<b>MI-163-1W-C010, Well #1-12</b>			
Current Month	405,326	0	405,326
Since facility first injected			4,563,674
<b>MI-163-1W-C011, Well #2-12</b>			
Current Month	0	0	0
Since facility first injected			1,951,204
		Lifetime Combined	6,514,878

Conversion factors

365.25 days per year ÷ 12 months per year = 30.4375 days per month

30.4375 days per month × 1440 minutes per day = 43,830 minutes per month

Calculations

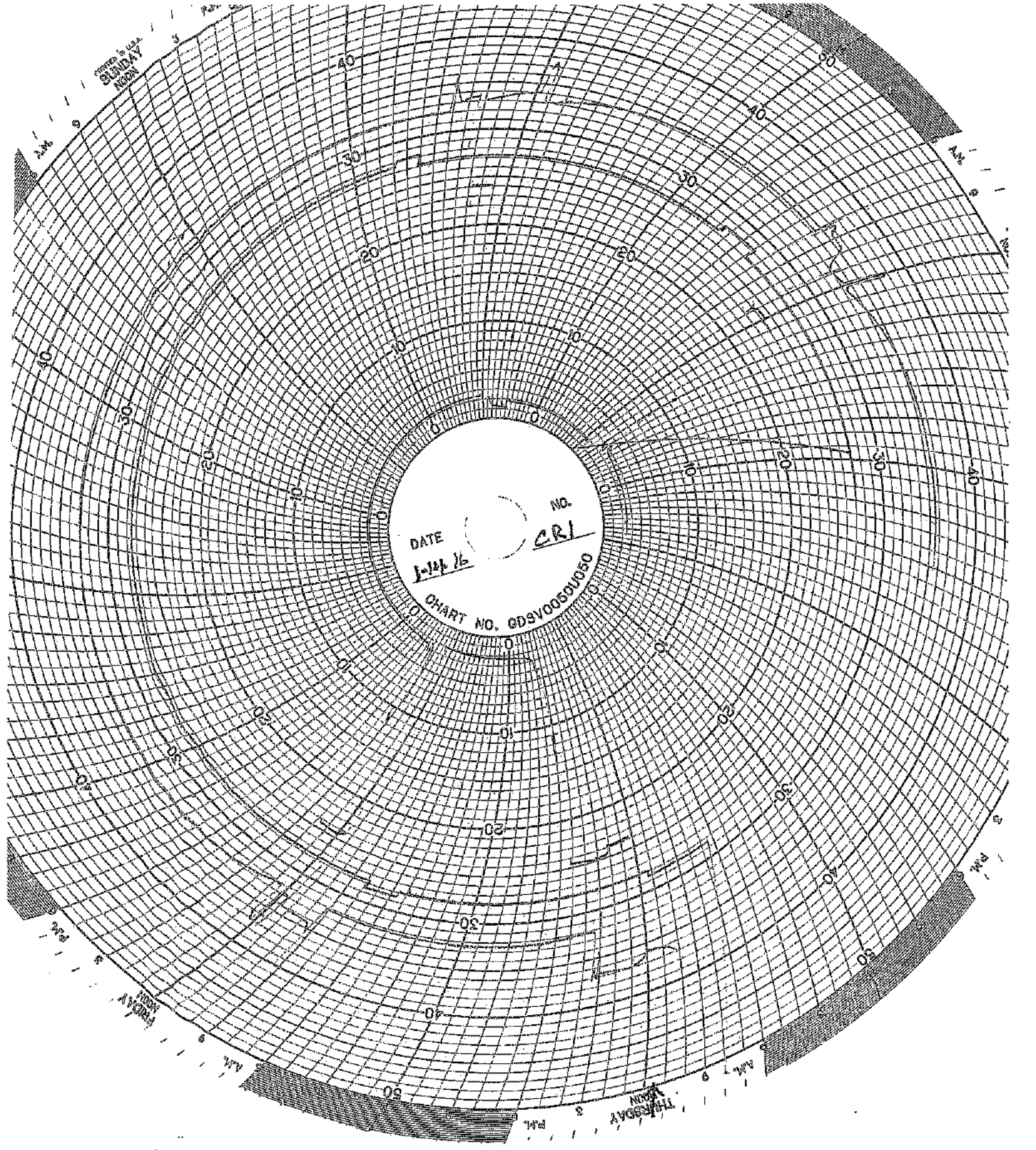
Whole number of months of injection 27

$$\underline{27} \text{ lifetime number of months of injection} \times 43,830 \text{ minutes/month} = \underline{1,183,410} \text{ minutes of injection}$$

$$\text{Lifetime combined injected volume } \underline{6,514,878} \div \underline{1,183,410} \text{ minutes of injection} = \underline{5.5} \text{ gpm average injection rate}$$

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injctate pH	Max Injctate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
1/1/2016	59.4	61.3	28.7	28.9	969.2	990.2	5.7	5.7	0.0	0.0	909.2	929.6
1/2/2016	58.6	60.0	28.7	28.9	948.2	963.2	5.7	5.7	0.0	0.0	888.9	909.8
1/3/2016	58.1	59.4	28.7	28.9	927.0	948.2	5.7	5.8	0.0	0.0	868.3	889.6
1/4/2016	29.3	719.6	28.4	29.7	822.3	1204.9	5.5	6.0	20.0	136.1	288.0	966.2
1/5/2016	53.1	723.4	28.3	30.0	836.2	1200.1	5.3	6.4	47.0	397.5	295.3	935.6
1/6/2016	43.8	144.1	23.9	28.6	882.8	1036.1	-1.6	10.9	0.3	60.6	836.0	960.1
1/7/2016	42.7	729.8	28.1	29.3	819.0	1197.7	-1.6	0.3	29.3	149.8	257.7	944.5
1/8/2016	57.0	725.2	28.1	28.9	883.0	1198.8	-1.1	-0.8	7.5	111.0	362.0	943.0
1/9/2016	66.6	69.0	28.2	28.3	988.4	1005.9	-1.1	-1.1	0.0	0.0	921.2	937.8
1/10/2016	65.8	67.3	28.1	28.3	965.4	988.5	-1.2	-1.1	0.0	0.0	899.3	921.8
1/11/2016	65.1	66.1	28.1	28.3	945.4	965.5	-1.4	-1.2	0.0	0.0	879.9	899.7
1/12/2016	17.4	725.9	28.1	29.0	799.9	1200.7	-2.1	-0.9	11.9	136.2	254.7	985.4
1/13/2016	29.2	729.5	27.8	28.8	839.0	1200.2	-2.1	-0.3	10.8	169.7	268.2	908.4
1/14/2016	64.9	744.7	27.6	28.7	887.3	1206.0	-2.0	0.1	27.0	114.8	340.3	909.1
1/15/2016	59.8	739.1	27.7	28.7	847.2	1201.2	-1.9	0.5	10.5	132.9	285.0	925.6
1/16/2016	66.6	69.9	27.6	27.8	980.4	995.3	-1.6	-1.5	0.0	0.0	913.2	926.3
1/17/2016	65.2	67.2	27.6	27.8	960.8	980.4	-1.6	-1.5	0.0	0.0	895.0	913.8
1/18/2016	27.3	723.0	27.2	28.4	829.0	1202.3	-2.8	-1.5	9.1	144.7	263.8	986.5
1/19/2016	41.3	725.9	27.0	28.3	824.1	1206.6	-2.7	-1.8	13.9	163.9	261.0	988.0
1/20/2016	62.6	65.1	27.0	27.2	1046.7	1055.1	-2.1	-1.8	0.0	0.0	983.8	991.3
1/21/2016	-9.7	731.2	27.0	27.9	884.8	1206.9	-1.9	-0.9	17.6	139.1	354.3	1004.3
1/22/2016	4.8	739.8	26.9	28.2	850.7	1205.5	-2.1	-0.5	24.4	139.0	253.0	997.8
1/23/2016	87.1	90.8	26.9	27.1	1014.6	1022.8	-1.5	-1.5	1.4	2.4	926.9	933.9
1/24/2016	86.1	87.7	26.9	27.1	997.1	1014.7	-1.5	-1.5	1.5	2.5	910.4	927.4
1/25/2016	33.8	719.0	26.9	27.9	880.5	1203.0	-1.5	-0.9	11.2	138.7	352.4	936.2
1/26/2016	39.9	750.3	26.4	28.0	814.6	1200.0	-1.7	5.2	22.2	156.2	261.7	935.3
1/27/2016	-9.8	748.2	26.4	27.5	776.5	1204.6	-2.5	-0.8	20.9	177.7	268.1	1018.1
1/28/2016	-9.8	-9.8	27.5	27.5	900.0	1005.8	-1.6	-1.4	1.0	3.2	909.8	1015.6
1/29/2016	-9.8	719.5	27.5	27.5	897.2	1204.7	-1.6	-1.0	15.1	168.9	399.5	1008.9
1/30/2016	-9.7	-9.7	27.5	27.5	904.6	925.0	-1.4	-1.4	1.4	1.4	914.3	934.7
1/31/2016	-9.7	-9.7	27.5	27.5	900.0	1007.8	-1.5	-1.4	1.4	1.4	909.7	1017.6



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1-14-76

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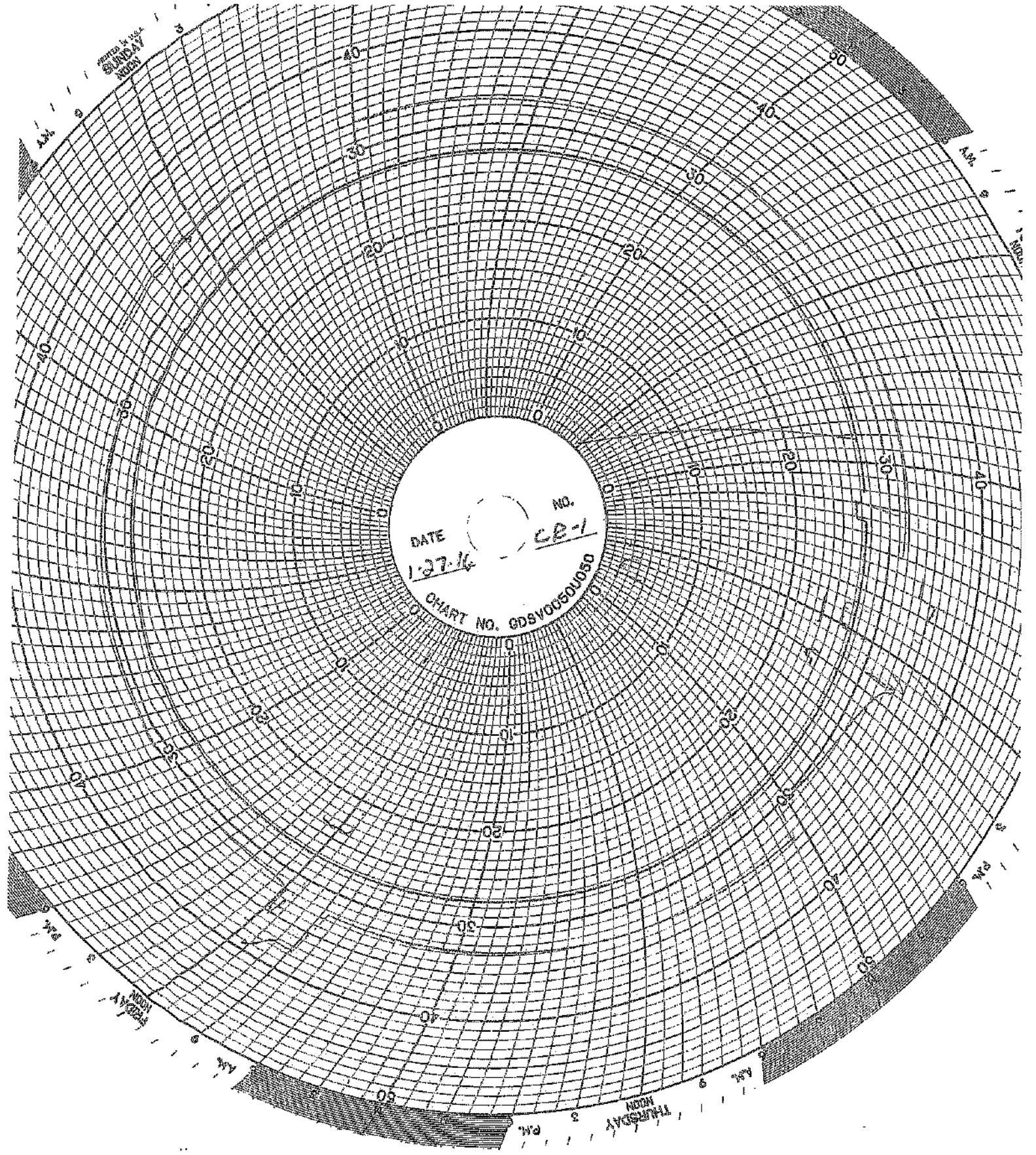
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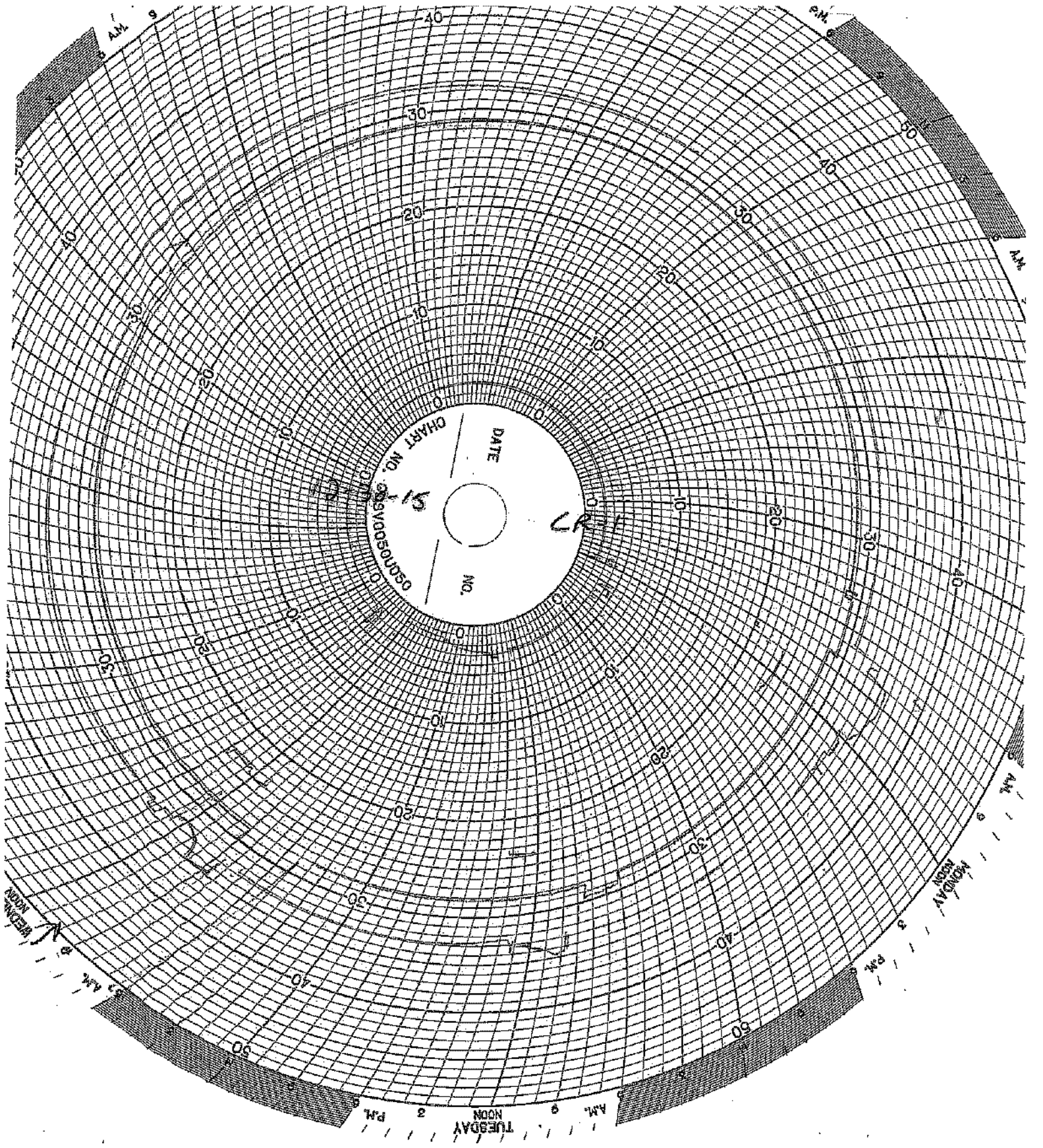
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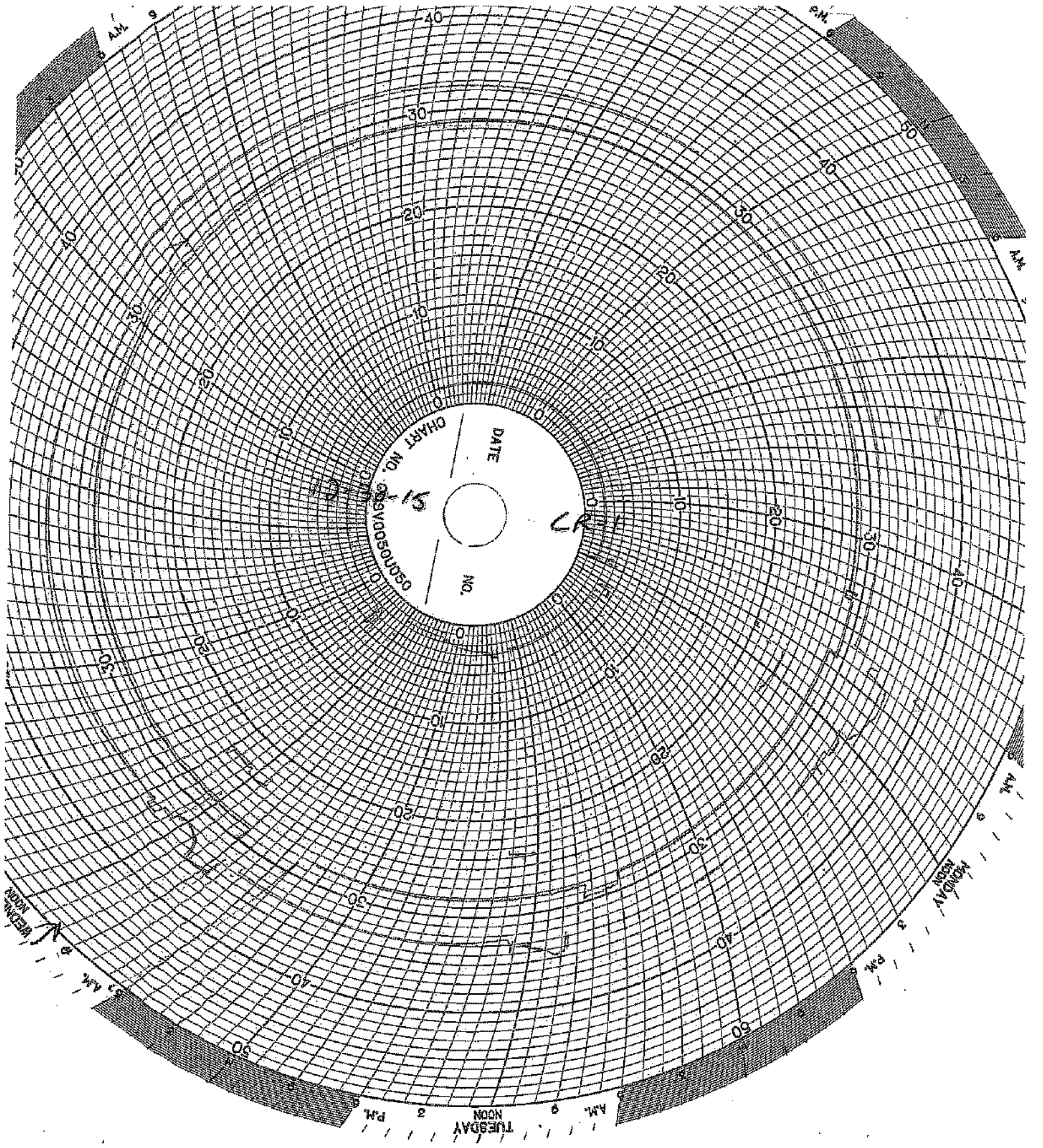


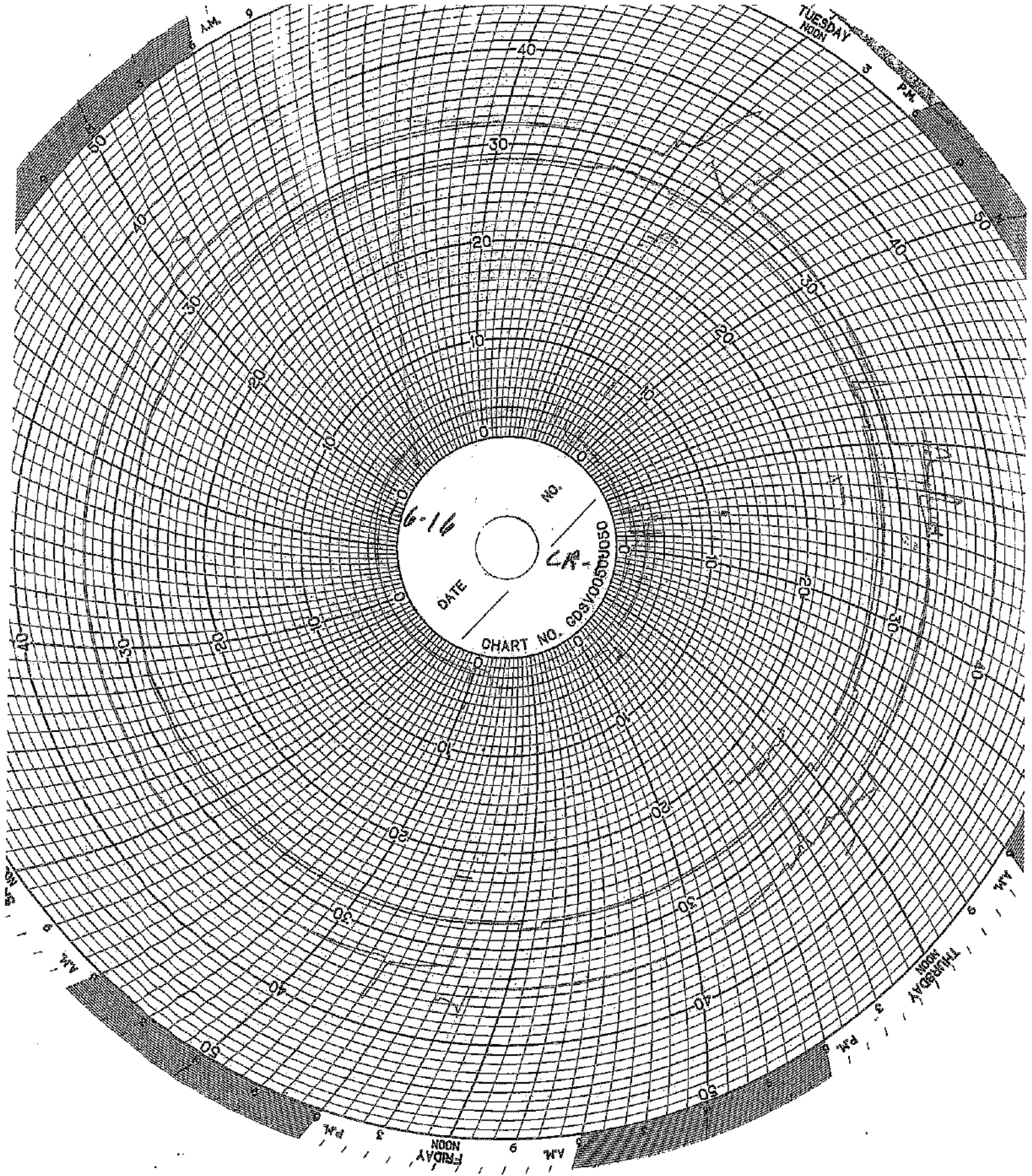
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**WELL 2 DATA**

Well 02 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
1/1/2016	-1.8	-1.6	17.8	17.9	382.7	387.2	5.7	5.7	0.0	0.0	384.5	388.9
1/2/2016	-1.8	-1.6	17.8	17.9	379.8	383.4	5.7	5.7	0.0	0.0	381.4	385.1
1/3/2016	-1.8	-1.6	17.8	17.8	376.5	380.4	5.7	5.8	0.0	0.0	378.1	382.1
1/4/2016	-1.8	-1.6	17.4	18.3	374.3	378.7	5.5	6.0	0.0	0.0	376.0	380.4
1/5/2016	-1.8	-1.6	17.0	19.0	371.8	375.3	5.3	6.4	0.0	0.0	373.4	377.0
1/6/2016	-1.8	-1.6	5.0	18.6	368.8	372.4	-1.6	10.9	0.1	122.5	370.5	374.2
1/7/2016	-1.8	-1.6	17.4	18.2	367.8	372.5	-1.6	0.3	0.0	0.0	369.4	374.2
1/8/2016	-1.8	-1.6	17.6	18.4	365.5	368.6	-1.1	-0.8	0.0	0.0	367.2	370.3
1/9/2016	-1.8	-1.6	17.7	17.8	363.0	366.1	-1.1	-1.1	0.0	0.0	364.7	367.8
1/10/2016	-1.8	-1.6	17.4	18.1	368.9	363.6	-1.2	-1.1	0.0	0.0	360.5	365.4
1/11/2016	-1.8	-1.6	17.2	18.3	355.8	359.6	-1.4	-1.2	0.0	13.1	357.4	361.2
1/12/2016	-1.8	-1.6	17.6	17.9	354.1	357.2	-2.1	-0.9	0.0	0.0	355.7	358.9
1/13/2016	-1.8	-1.6	17.2	18.2	352.0	354.9	-2.1	-0.3	0.0	0.0	353.6	356.6
1/14/2016	-1.8	-1.6	17.6	17.9	351.1	355.6	-2.0	0.1	0.0	0.0	352.8	357.3
1/15/2016	-1.8	-1.6	17.4	18.3	350.1	353.1	-1.9	0.5	0.0	0.0	351.7	354.8
1/16/2016	-1.8	-1.6	17.4	18.2	346.8	350.8	-1.6	-1.6	0.0	0.0	348.4	352.4
1/17/2016	-1.7	-1.5	17.6	17.8	343.2	347.4	-1.6	-1.5	0.0	0.0	344.8	349.1
1/18/2016	-1.7	-1.5	17.6	18.4	341.3	344.1	-2.8	-1.5	0.0	0.0	342.9	345.8
1/19/2016	-1.7	-1.5	17.6	18.2	340.0	343.1	-2.7	-1.8	0.0	0.0	341.6	344.7
1/20/2016	-1.7	-1.5	17.3	17.8	337.4	342.0	-2.1	-1.8	0.0	0.7	339.0	343.6
1/21/2016	-1.8	-1.5	17.6	18.1	336.8	340.1	-1.9	-0.9	0.0	0.0	338.4	341.7
1/22/2016	-1.7	-1.6	17.6	18.0	335.9	339.9	-2.1	-0.5	0.0	0.0	337.5	341.5
1/23/2016	-1.7	-1.6	17.6	17.8	332.8	336.5	-1.5	-1.5	0.0	0.0	334.5	338.2
1/24/2016	-1.8	-1.6	17.6	17.8	331.3	333.5	-1.5	-1.5	0.0	0.0	332.9	335.1
1/25/2016	-1.8	-1.6	17.6	18.0	330.2	332.8	-1.5	-0.9	0.0	0.0	331.8	334.6
1/26/2016	-1.8	-1.6	17.4	18.2	329.5	333.1	-1.7	5.2	0.0	0.0	331.2	334.7
1/27/2016	-1.8	-1.6	17.4	18.2	328.3	331.3	-2.5	-0.8	0.0	0.0	330.0	333.0
1/28/2016	-1.8	-1.5	17.7	17.8	325.4	329.0	-1.6	-1.4	0.0	0.0	327.1	330.7
1/29/2016	-1.8	-1.6	17.2	18.2	323.8	326.9	-1.6	-1.0	0.0	0.0	325.4	328.5
1/30/2016	-1.8	-1.6	17.3	18.1	322.1	324.5	-1.4	-1.4	0.0	0.0	323.7	326.1
1/31/2016	-1.8	-1.6	17.5	18.1	320.5	322.8	-1.5	-1.4	0.0	0.0	322.2	324.5

## 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

UNITED STATES OF AMERICA  
SUNDAY  
NOON

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1-27-16

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CHART NO. 005V0050050

THURSDAY  
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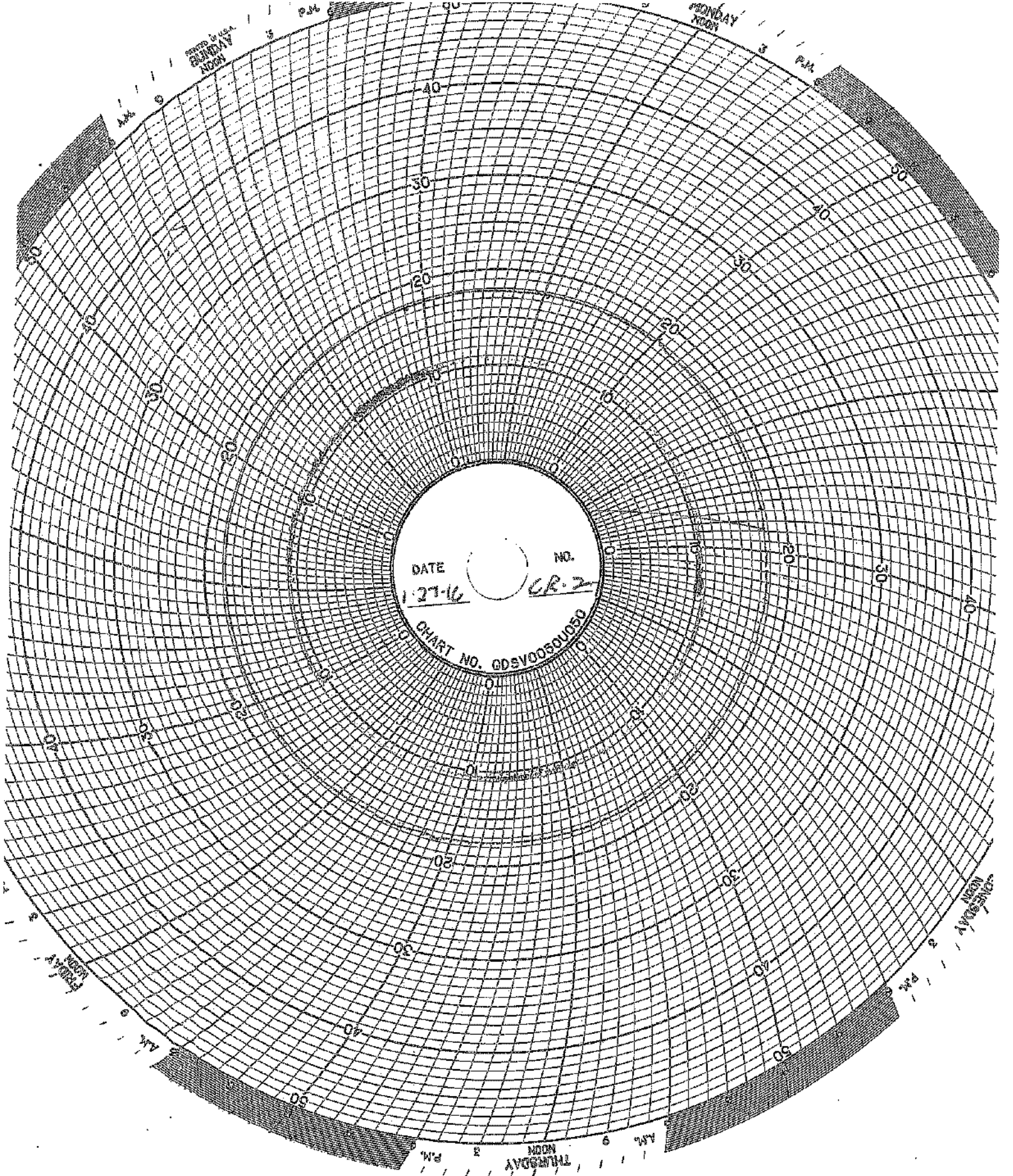
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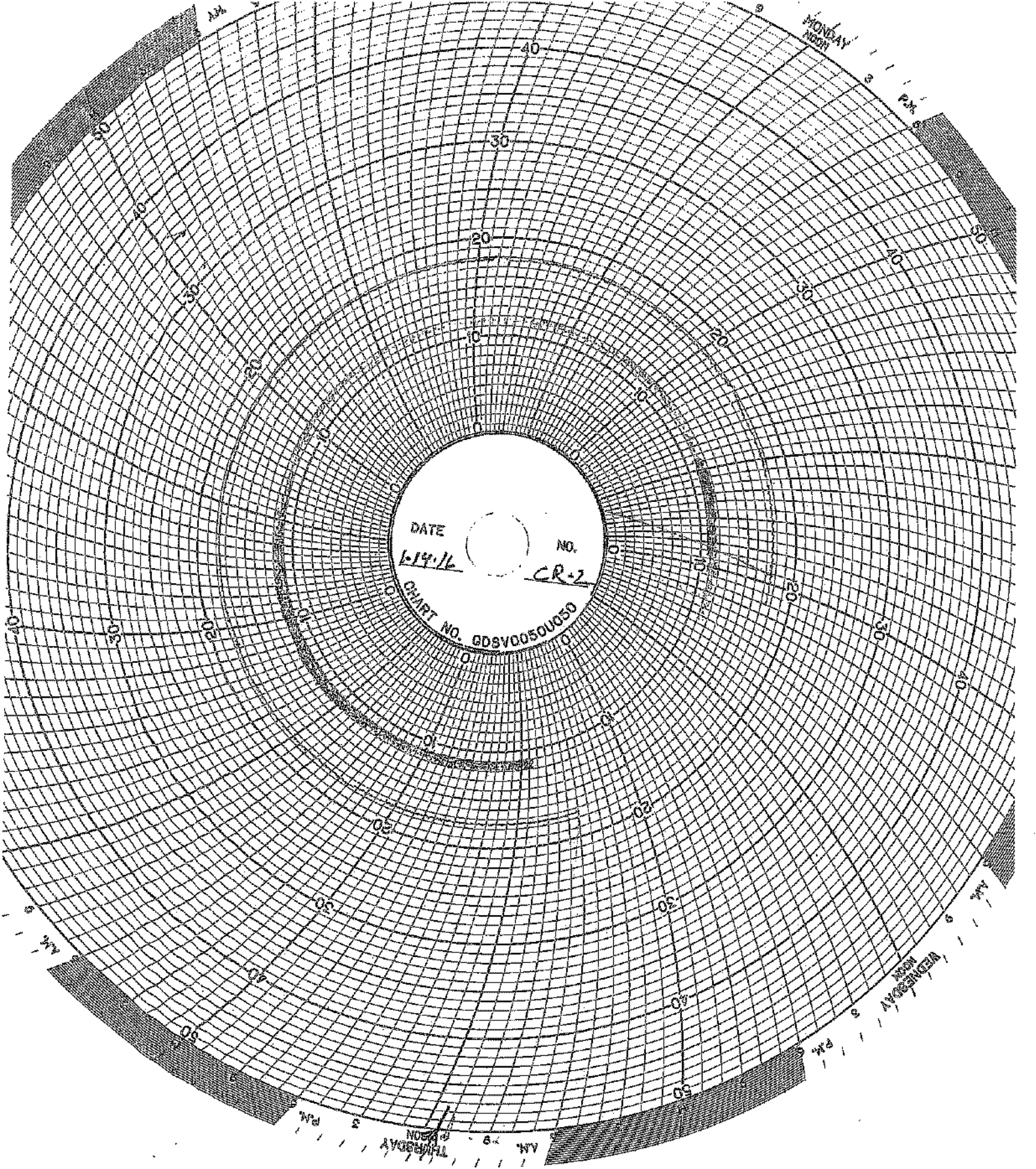
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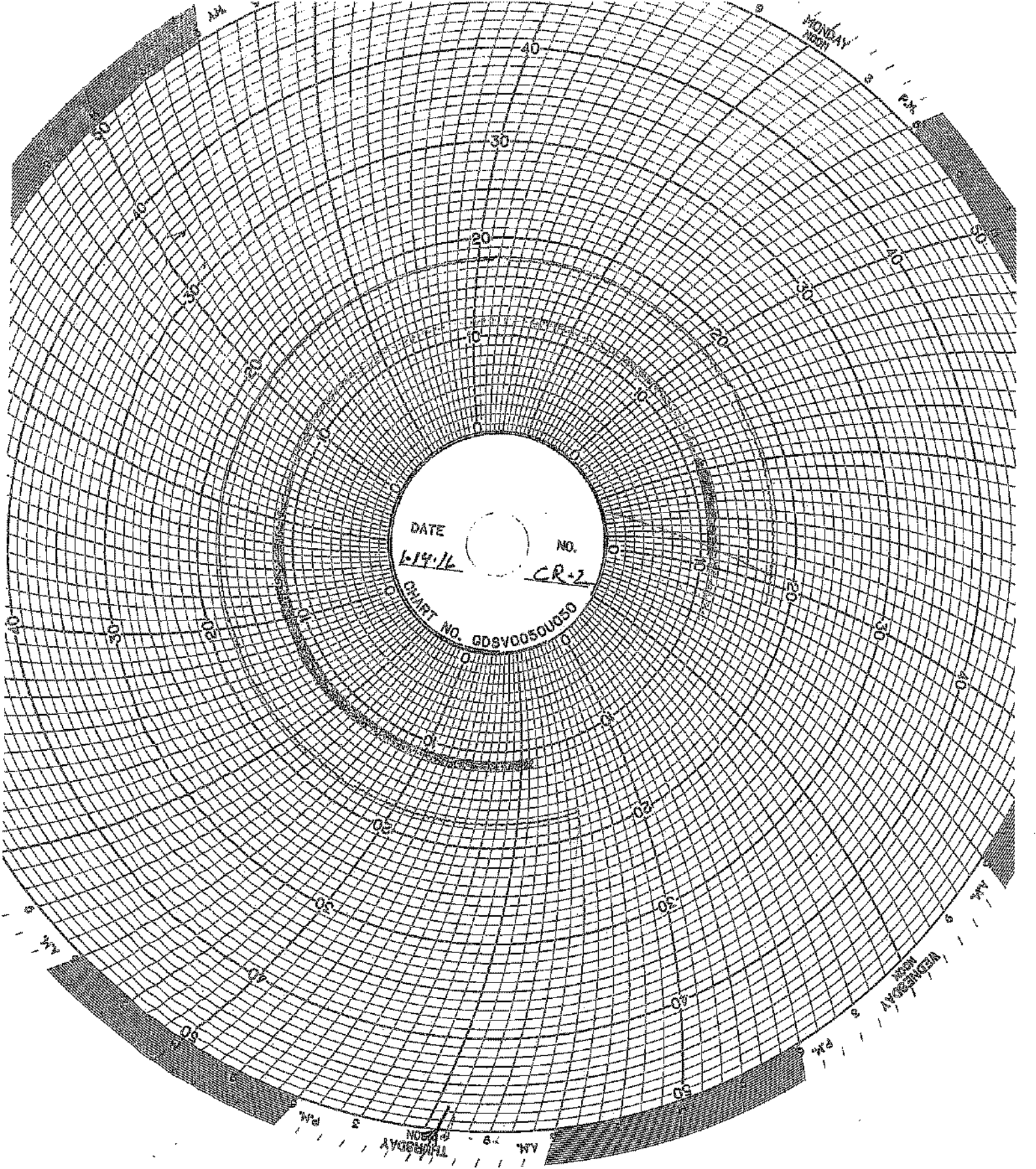


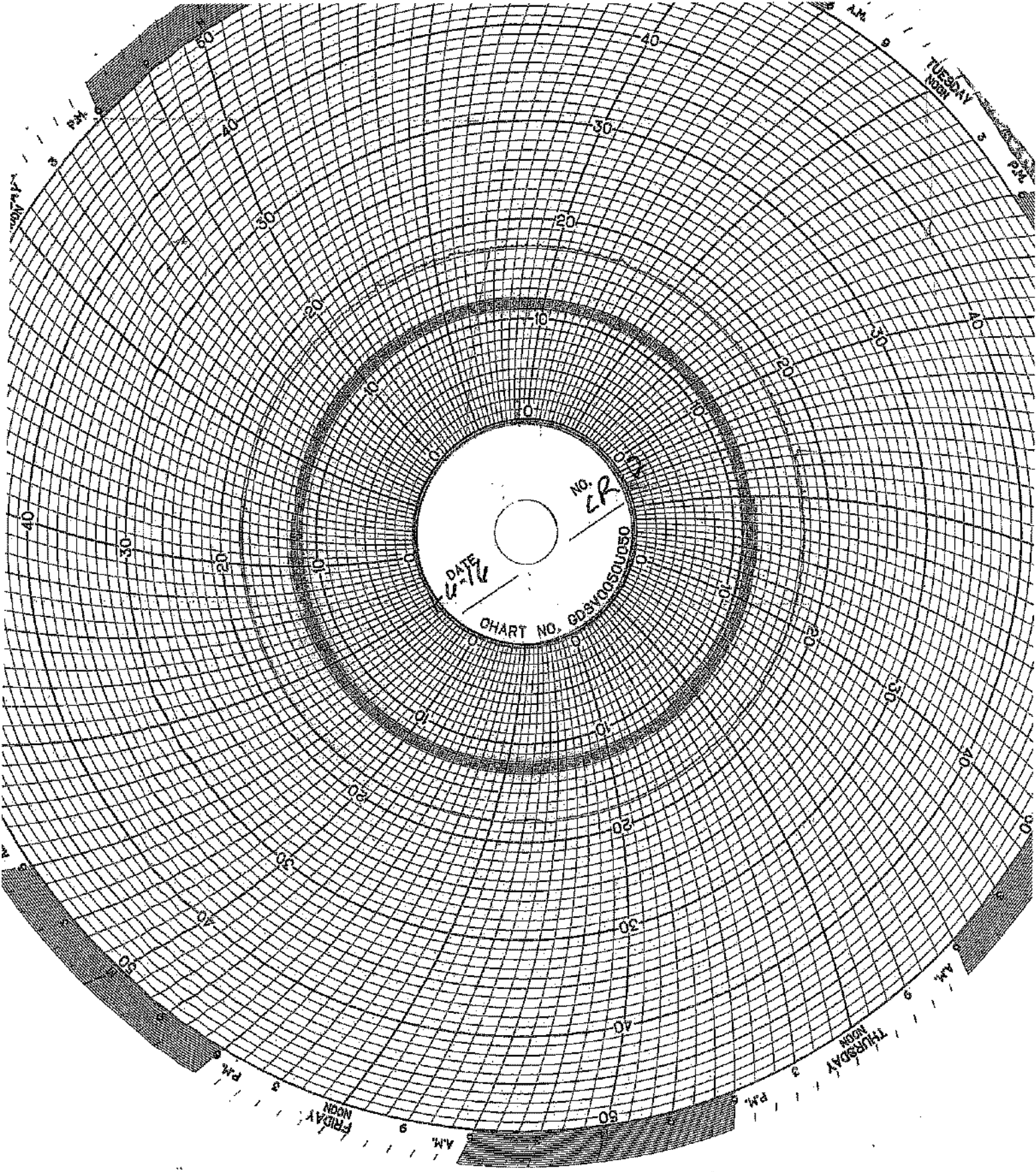
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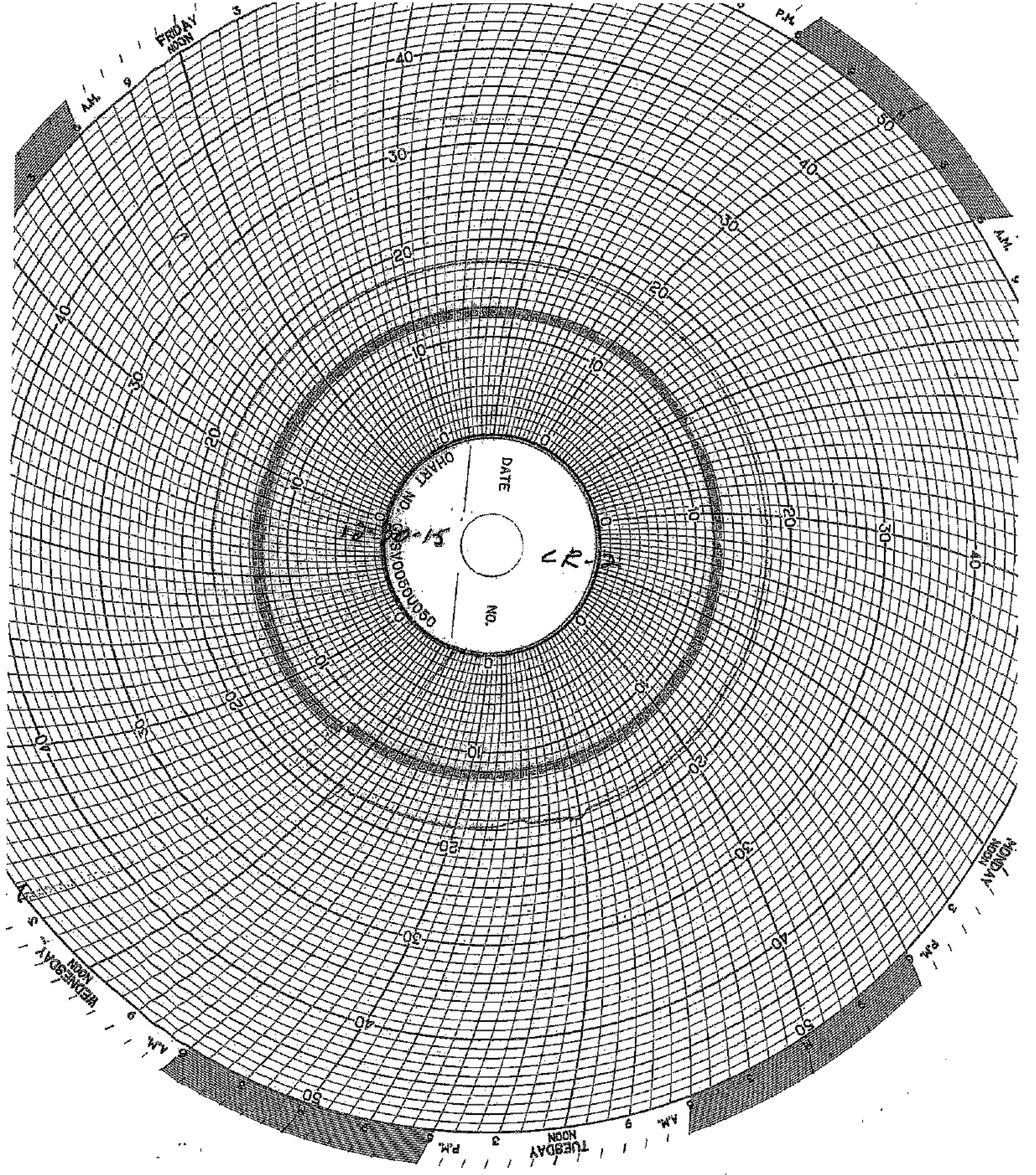
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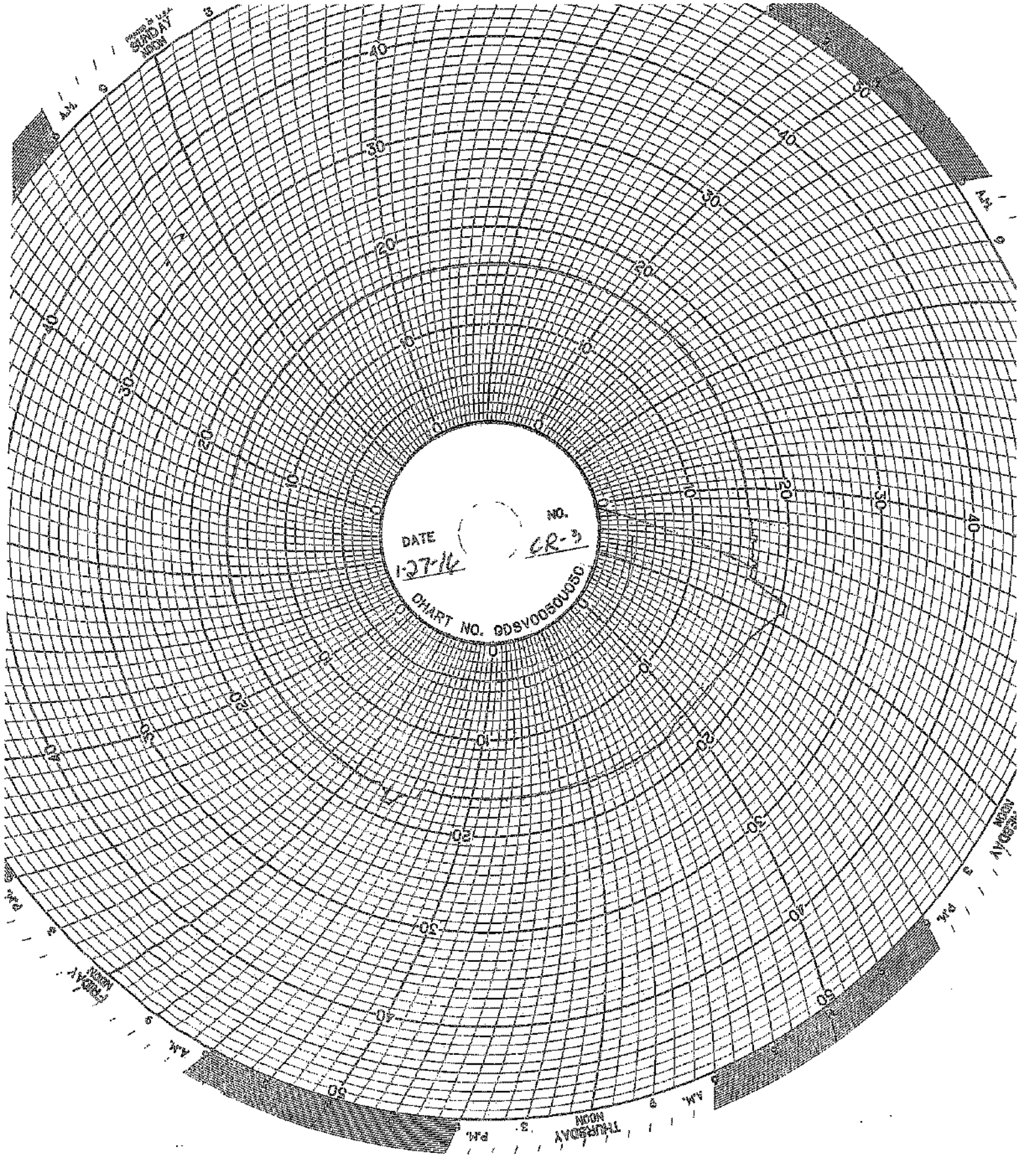
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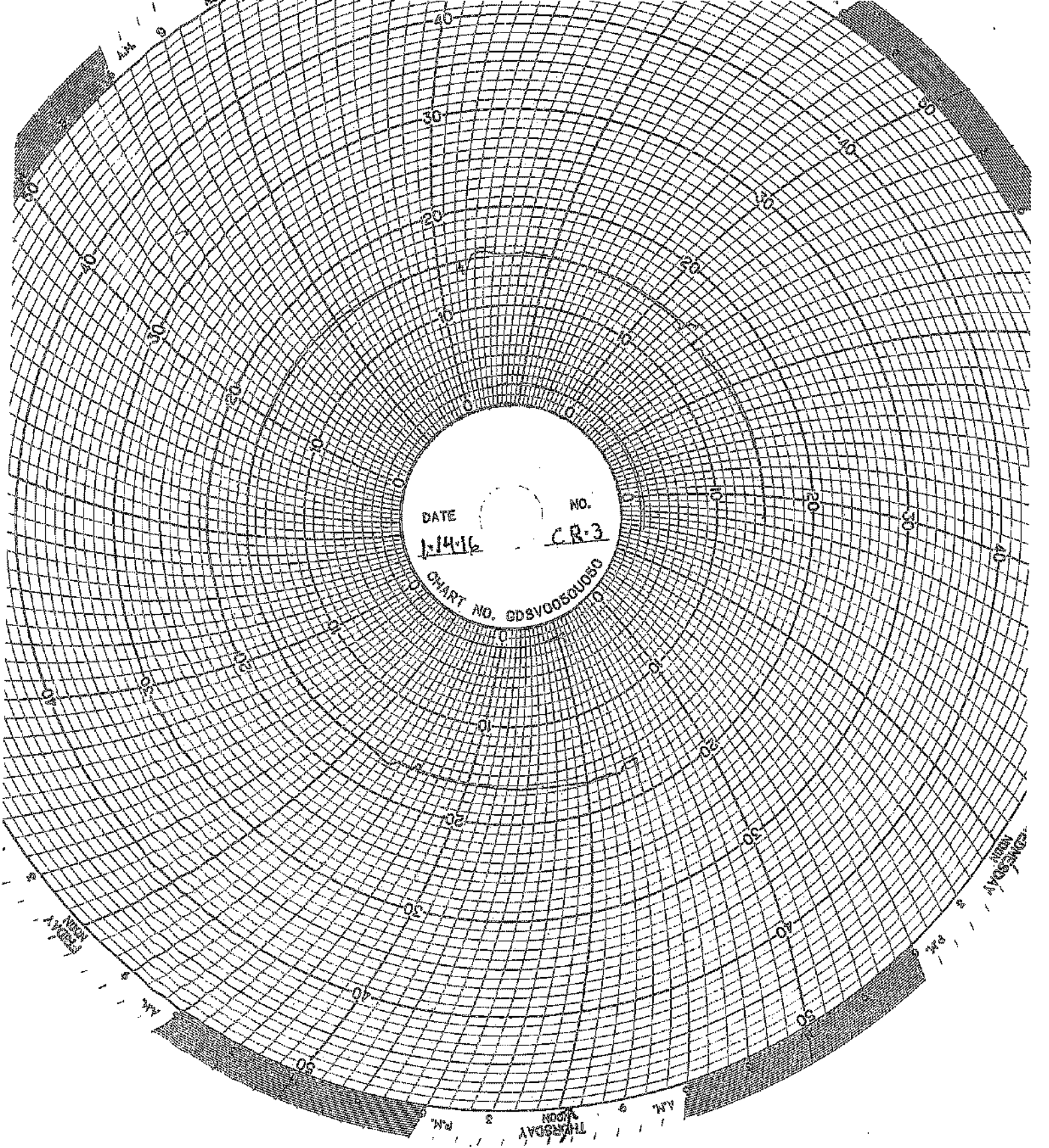
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THURSDAY  
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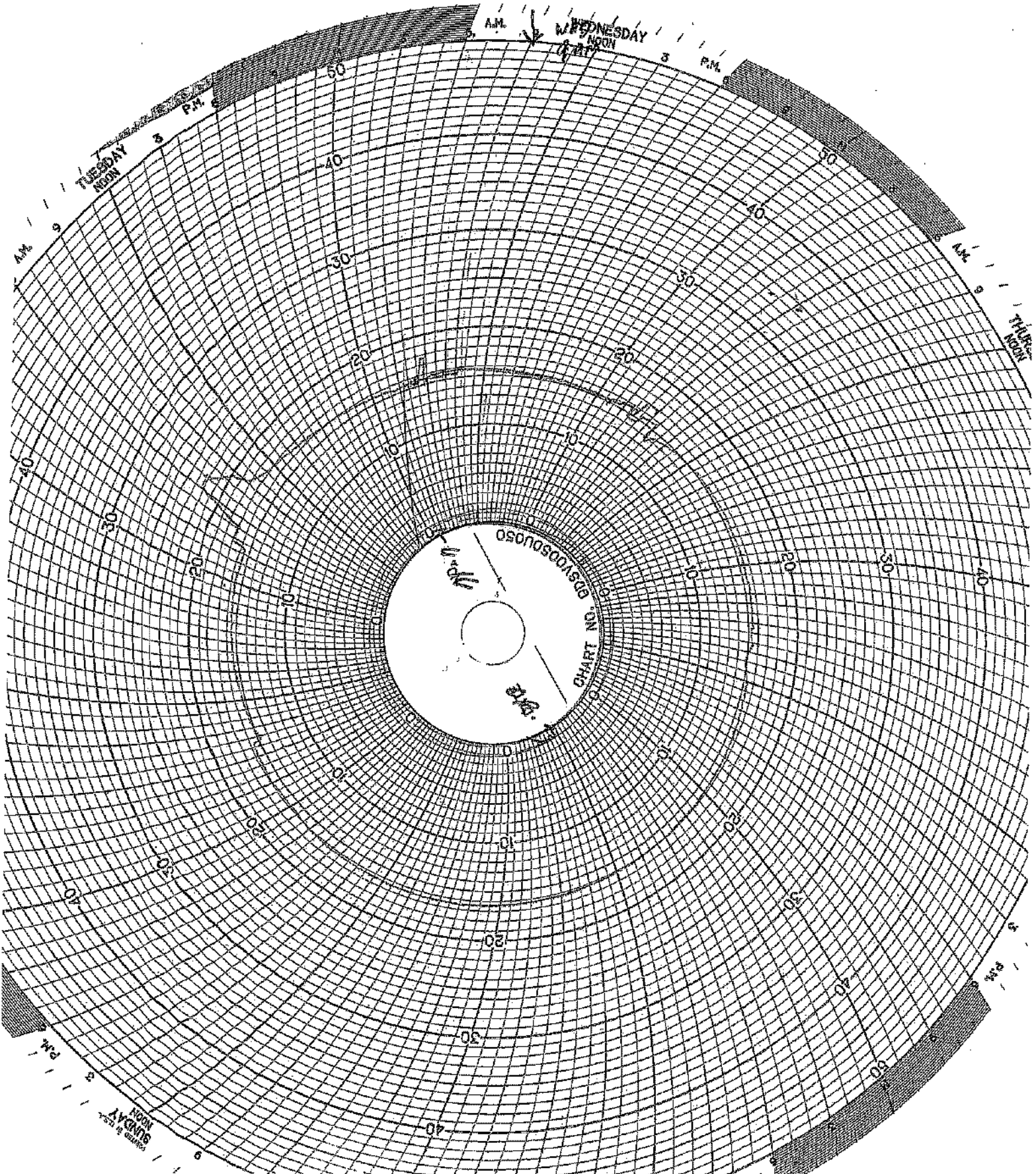
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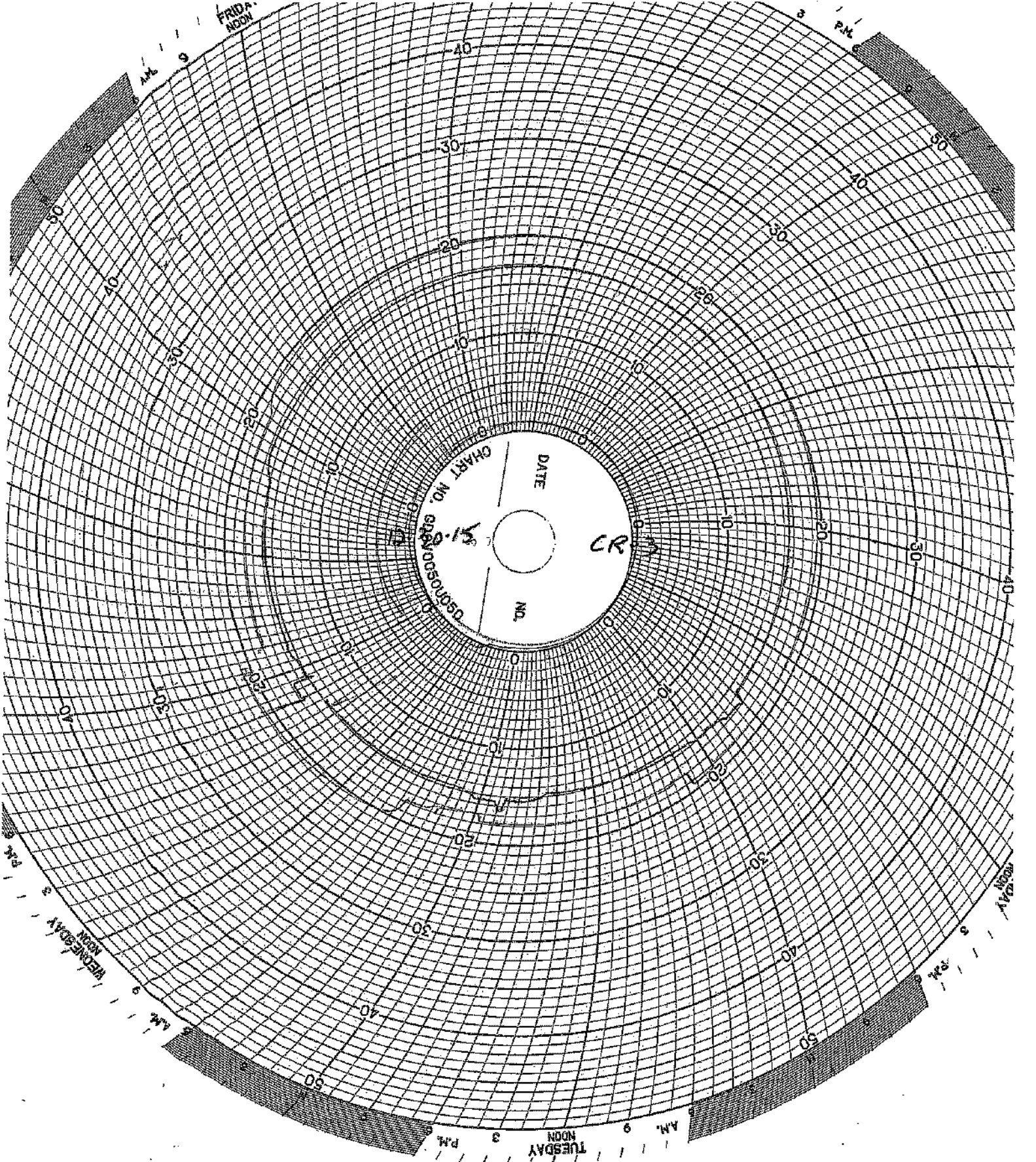
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## **Missing Circle Charts for January 2016 EPA Monthly Report**

There are three circle charts missing, all three charts cover the dates between 01.20.16 and 01.27.16. The three charts cover a one week period. One of Environmental Geo-Technologies, LLC ("EGT") operators responsible for collecting the charts, and, filing them for monthly reporting, failed to complete this task. Both Corrective and Preventive Actions have been taken with the Operator and his Supervisor. EGT has searched for the missing charts but are unable to locate them. The data for these charts is still nevertheless continuously monitored and recorded on EGT's SCADA01 computer, however, there is no way to reproduce the circle charts from this data. The computerized data is summarized in the tabulated spreadsheets within the monthly report, and, more specific data searches can be performed by accessing the SCADA01 records. No permit alarm conditions were exceeded during the week of "missing" charts, or, for the entire month of January.

## **MAINTENANCE LOG**

### UIC Monthly Maintenance Log

1/28/2016	Well 1	Welded over all existing weld joints on the pipeline between injection pump 1 and wellhead 1
1/28/2016	SST	Removed old flowmeter from SST effluent line and plugged the saddle fitting
1/29/2016	Well 1	Heat traced and insulated wellhead pipes.

## **CORROSION MONITORING**

## 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.



## **CORROSION MONITORING COUPONS VISUAL DESCRIPTION**

**January 29, 2015**

### **Fiberglass Coupon**

The coupon is dark orange (rust) in color with similar semi-smooth textures on both sides. Its cut edges appear sanded. The coupon is free of pits, cracks, swelling, wicking and blemishes.

### **Hastelloy Coupon**

This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There appears to be no effect on this coupon.

### **Stainless Steel Coupon**

The coupon is silver in color with a heavy pock-marked and corroded surface.

CORROSION MONITORING PLAN  
COUPON SUMMARY

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (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	
10/30/2014	13.321 g	9.387 g	7.075 g	
11/21/2014	13.320 g	9.386 g	7.069 g	
12/19/2014	13.321 g	9.315 g	7.084 g	
1/12/2015	13.321 g	9.289 g	7.063 g	
2/23/2015	13.339 g	9.286 g	7.005 g	
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

# TEST REPORT

**PN 125322**  
**PO 00154**

## PLASTICS TESTING DEPARTMENT

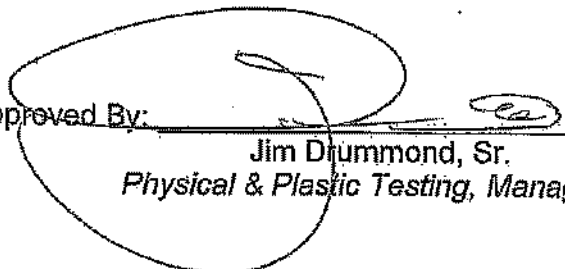
Prepared For:

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

Prepared By:

  
Melissa Martin  
Sr. Project Technician

Approved By:

  
Jim Drummond, Sr.  
Physical & Plastic Testing, Manager



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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Fax (330) 794-6610 | Worldwide (330) 794-6600



October 22, 2015

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 125322

**SUBJECT:** Barcol Hardness on one material.

**RECEIVED:** One small section identified as; Fiberglass Coupon.


**BARCOL HARDNESS ASTM D 2583-13a**  
Instant Reading

**Results**

Barcol Hardness, Instant

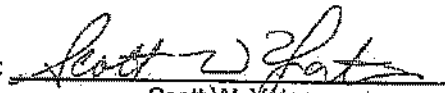
96

Prepared By:

  
Melissa Martin  
Sr. Project Technician

to

Approved By:

  
Scott W. Yates  
Plastics Testing Assistant Manager

# Ghesquiere Plastic Testing, Inc.

20450 HARPER AVENUE  
HARPER WOODS, MI 48228  
PHONE (313) 865-3638  
FAX (313) 865-1771

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 D2583-11. One specimen was tested.

## RESULTS:

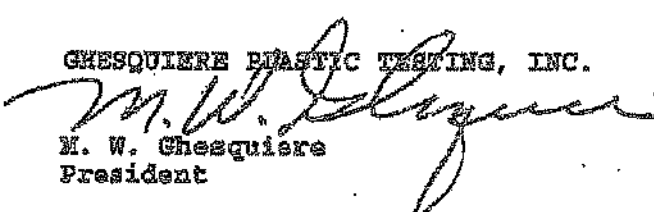
The following determination was made based upon the above test:

### BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

Ghesquiere Plastic Testing, Inc.

  
M. W. Ghesquiere  
President

MWG/kni

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TOTAL 1 PAGES

# Ghesquiere Plastic Testing, Inc.

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

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

Report #1402-78036  
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

#### Hardness

Specimen 1: 90

Specimen was returned to the client on February 17, 2014.

Ghesquiere Plastic Testing, Inc.

M. W. Ghesquiere  
President

MWG/dm

# Ghesquiere Plastic Testing, Inc.

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

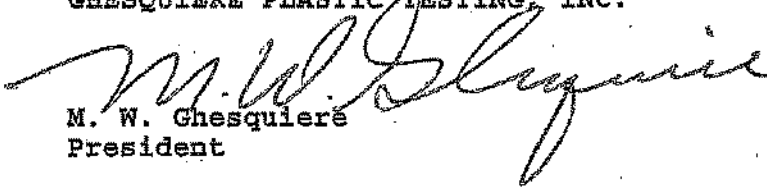
### Hardness

Specimen 1

85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.

  
M. W. Ghesquiere  
President

MWG/dm



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:

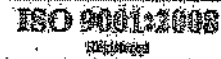
*Melissa Martin*  
Sr. Project Technician

Approved By:

*Jim Drummond*  
Physical & Plastics Testing, Manager



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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:

Melissa Martin  
Sr. Project Technician

Approved By:

Scott W. Yates  
Plastics Testing Assistant Manager

www.w.a.r.d.l.com

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**INJECTION  
FINGERPRINTS**

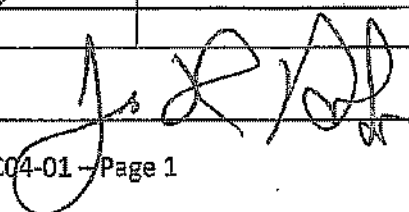
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/4/16
Receiving ID#	IO1041601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	S.H.
Sampled by	BT

COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Streams			
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.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	3.9%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	77.8 mS		
% Solids	3.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

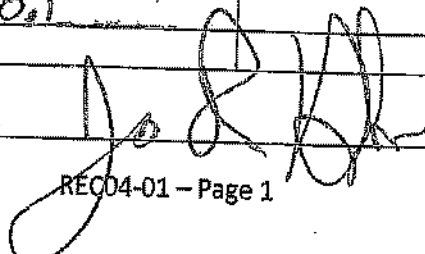
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/4/16
Receiving ID#	I01041603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	JH
Sampled by	JD

COPY

LAB INFORMATION		Official Lines 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.)	6.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	61°F		
Conductivity	89.8 µS		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

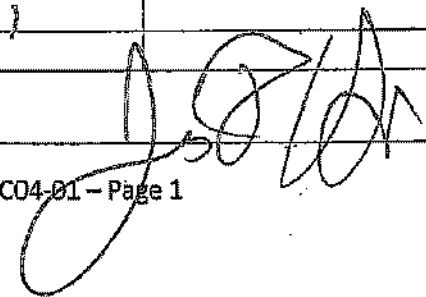
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/5/16
Receiving ID#	I01051608
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	SS

COPY

LAB INFORMATION		Field Times Only	
Air/Water Shipments			
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.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	8.42
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	167.0 nS		
% Solids	8.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

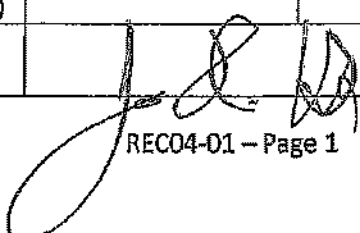
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/7/16
Receiving ID#	101071601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	OH

**COPY**

LAB INFORMATION		Oilfield Bases ONLY	
All Waste Submittals			
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.)	0.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	9.1?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	57°F		
Conductivity	180.7 mS		
% Solids	9.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/7/16
Receiving ID#	101071602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		OTHER ENDS ONLY	
All Waste Subst. in L			
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	5.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	113.9 mS		
% Solids	5.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/7/16
Receiving ID#	101071603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

**COPY**

LAB INFORMATION		Oilfield Brines Only	
Aqueous Shipments			
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	7.72
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	153.3 mS		
% Solids	7.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		



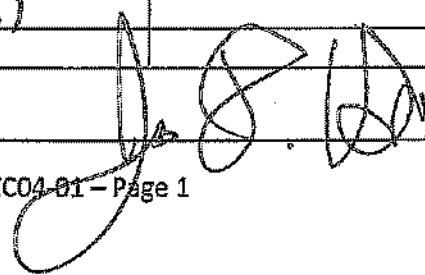
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/8/16
Receiving ID#	I01081601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	RF

**COPY**

LAB INFORMATION		Other Elements 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.)	1.7	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.4?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	66.8 mS		
% Solids	3.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/12/16
Receiving ID#	I01121601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

**COPY**

LAB INFORMATION		Offsite Bins 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.)	1.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	3.3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	59°F		
Conductivity	66.3 mS		
% Solids	3.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/13/16
Receiving ID#	I(21131601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	[Signature]

COPY

LAB INFORMATION		Other Bites Only	
All Waste Shipments			
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.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	6.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	125.9 mS		
% Solids	6.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

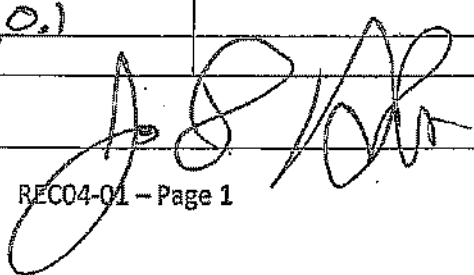
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/14/14
Receiving ID#	IO1141601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BP


COPY

LAB INFORMATION		Hazardous Shipments		Hazardous 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.)	1.3	Sodium Chloride			
Cyanides? (mg/L)		Bicarbonate			
Sulfides? (ppm)		Carbonate			
Specific Gravity	1.07	TDS			4.3%
Physical Description		Resistivity			
Stream Consistency	Yes No	Sulfate			
Oil in Sample	Yes No				
Temperature	63°F				
Conductivity	85.6 mS				
% Solids	4.3				
Turbidity	Yes No				
Color (visual)					
TSS (%)	< 0.1				
Radiation Screen (as needed)					
Lab Signature					

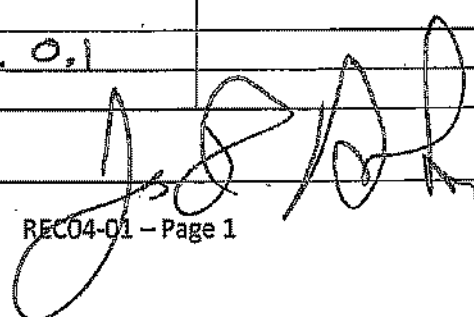
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/14/16
Receiving ID#	I01141602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		Oil Field Brines 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.)	1.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	2.3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	46.0 mS		
% Solids	2.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/14/16
Receiving ID#	IP141603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

**COPY**

LAB INFORMATION		NEW STATEMENTS		OTHERS (SOLIDS 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.)	1.2		Sodium Chloride		
Cyanides? (mg/L)			Bicarbonate		
Sulfides? (ppm)			Carbonate		
Specific Gravity	1.07		TDS		4.0%
Physical Description			Resistivity		
Stream Consistency	Yes	No	Sulfate		
Oil in Sample	Yes	No			
Temperature	62°F				
Conductivity	29.6 mS				
% Solids	4.0				
Turbidity	Yes	No			
Color (visual)					
TSS (%)	20.1				
Radiation Screen (as needed)					
Lab Signature					

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/15/16
Receiving ID#	101151601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	

COPY

LAB INFORMATION		Field Blines Only	
Air/Waste Streams			
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.29
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	57.4		
Conductivity	83.8 - 5		
% Solids	4.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

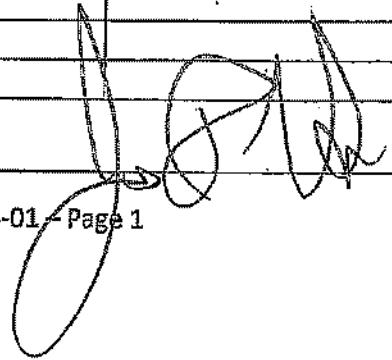
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/13/16
Receiving ID#	101181601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BP

COPY

LAB INFORMATION		All Waste Substrates		Oil Spills 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.)	0.5	Sodium Chloride			
Cyanides? (mg/L)		Bicarbonate			
Sulfides? (ppm)		Carbonate			
Specific Gravity	1.09	TDS		11.27	
Physical Description		Resistivity			
Stream Consistency	Yes No	Sulfate			
Oil in Sample	Yes No				
Temperature	56°F				
Conductivity	224.2 mS				
% Solids	11.2				
Turbidity	Yes No				
Color (visual)					
TSS (%)	< 0.1				
Radiation Screen (as needed)					
Lab Signature					



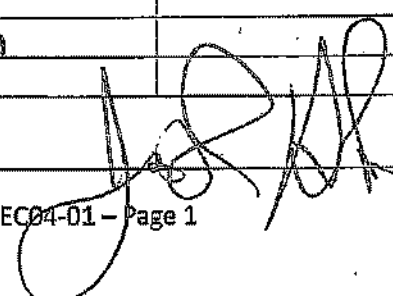
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/19/16
Receiving ID#	101191601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

COPY

LAB INFORMATION		Cited Bases 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.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.15	TDS	35.79
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	57°F		
Conductivity	> 400.0 mS		
% Solids	35.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	40.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/19/16
Receiving ID#	ID1191602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	[Signature]

COPY

LAB INFORMATION		Other Elements Only	
Waste Shipments			
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.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	8.9%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	52°F		
Conductivity	1770 mS		
% Solids	8.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/21/16
Receiving ID#	IO1211601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	

**COPY**

LAB INFORMATION		Oilfield Sites Only	
All Waste Shipments			
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.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	6.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	129.8 mS		
% Solids	6.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

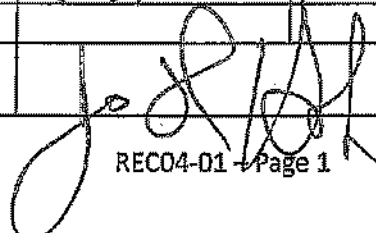
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/21/14
Receiving ID#	I01211602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	SS

COPY

LAB INFORMATION		On Field Bins Only	
All Waste Shipments			
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.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	57°F		
Conductivity	68.6 mS		
% Solids	3.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	10.1		
Radiation Screen (as needed)			
Lab Signature			

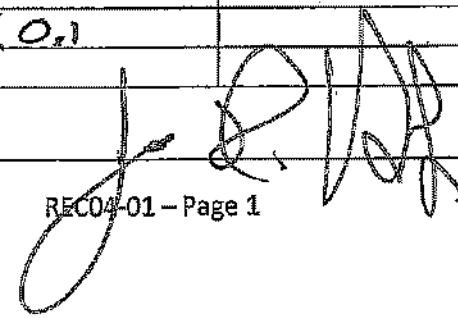
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/22/16
Receiving ID#	IO1221601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	JB

COPY

LAB INFORMATION		Off-Field Sites 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.)	2.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	59° F		
Conductivity	70.7 mS		
% Solids	3.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

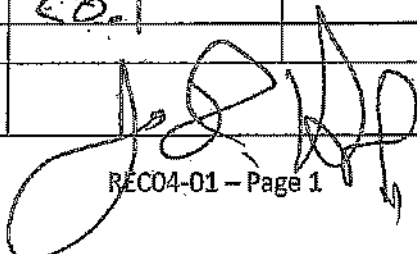
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/22/16
Receiving ID#	101221602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J. H.
Sampled by	BP

COPY

LAB INFORMATION		Field Bites Only	
Always Shipments			
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.)	2.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	2.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	56°F		
Conductivity	55.9 mS		
% Solids	2.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	60.1		
Radiation Screen (as needed)			
Lab Signature			

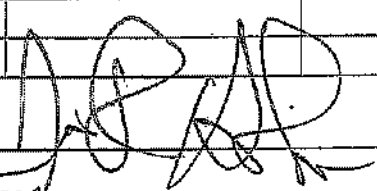
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/25/16
Receiving ID#	101251601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	SB

COPY

LAB INFORMATION		Oilfield Lines Only	
All Waste Streams			
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.)	6.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.8?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	76.1 uS		
% Solids	3.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

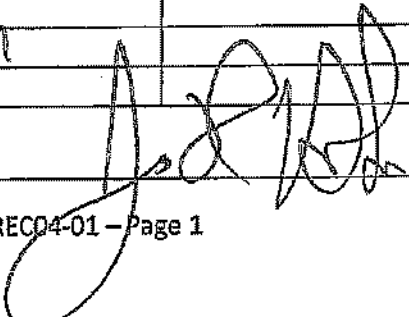
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11/26/16
Receiving ID#	101261601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	PT

COPY

LAB INFORMATION		Onfield Bites Only	
All Waste Streams			
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.)	3.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	80°F		
Conductivity	89.6 mS		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			



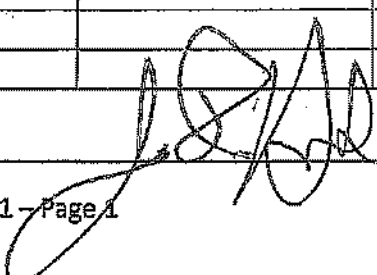
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/20/16
Receiving ID#	I01261602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	JH PP
Sampled by	

COPY

LAB INFORMATION		Oil & Brines Only	
All Waste Streams			
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flesh Point (°F)	> 140	Magnesium	
pH (S.U.)	2.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	4.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59°F		
Conductivity	91.3 mS		
% Solids	4.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

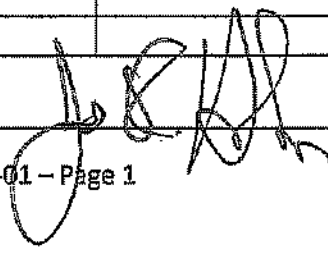
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/27/16
Receiving ID#	10/27/601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	RP

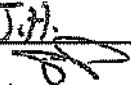
COPY

LAB INFORMATION		Oilfield Brines Only	
All Waste Submitters			
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.)	1.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	3.89
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	74.4 mS		
% Solids	3.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

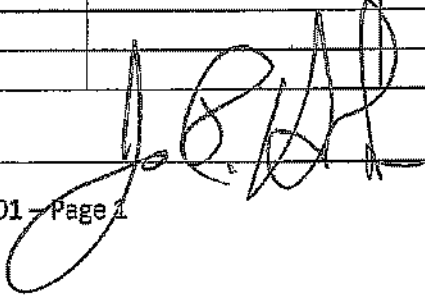
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/27/16
Receiving ID#	101271602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	

COPY

LAB INFORMATION		Officed Bins 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.)	2.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.22
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	63.4 mS		
% Solids	3.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

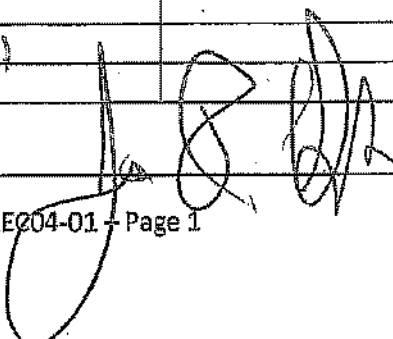
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/29/16
Receiving ID#	101291601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	SB

**COPY**

LAB INFORMATION		Other Binies Only	
All Waste Shipments			
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	8.0%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	159.2 mS		
% Solids	8.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

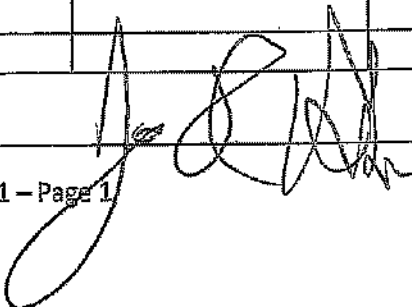
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/29/16
Receiving ID#	ID1291602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	S. J.
Sampled by	BT

COPY

LAB INFORMATION		Off Field Pipes 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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	7.1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	66°F		
Conductivity	140.9 mS		
% Solids	7.1		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS  
CHARACTERIZATIONS**

# WASTE MATERIAL PROFILE SHEET

00764

**A. GENERAL INFORMATION**  
 GENERATOR EPA ID #/REGISTRATION # \_\_\_\_\_  
 GENERATOR CODE \_\_\_\_\_  
 ADDRESS \_\_\_\_\_  
 CUSTOMER CODE \_\_\_\_\_  
 ADDRESS \_\_\_\_\_

GENERATOR NAME \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_ ZIP/POSTAL CODE \_\_\_\_\_  
 PHONE \_\_\_\_\_  
 CUSTOMER NAME \_\_\_\_\_  
 CITY \_\_\_\_\_ STATE/PROVINCE \_\_\_\_\_ ZIP/POSTAL CODE \_\_\_\_\_

**B. WASTE DESCRIPTION**

WASTE DESCRIPTION: Ammonium Nitrate

PROCESS GENERATING WASTE: Petroleum Cracking byproduct that is Refined into a Fertilizer Product

IS THIS WASTE CONTAINED IN SMALL PACKAGING CONTAINED WITHIN A LARGER SHIPPING CONTAINER? No

**C. PHYSICAL PROPERTIES (at 25°C or 77°F)**

<p><b>PHYSICAL STATE</b></p> <p>SOLID WITHOUT FREE LIQUID                  POWDER                  MONOLITH/SOLID  <input checked="" type="checkbox"/> LIQUID WITH NO SOLIDS                  LIQUID/SOLID MIXTURE                  % FREE LIQUID <u>75.00 - 95.00</u>                  % SETTLED SOLID <u>5.00 - 25.00</u>                  % TOTAL SUSPENDED SOLID                  SLUDGE                  GAS/AEROSOL</p>	<p><b>NUMBER OF PHASES/LAYERS</b></p> <p><input checked="" type="checkbox"/> 1    2    3    TOP    0.00                  % BY VOLUME (Approx.)    MIDDLE    0.00                  BOTTOM    0.00</p>	<p><b>VISCOSITY (if liquid present)</b></p> <p><input checked="" type="checkbox"/> 1 - 100 (e.g. Water)                  101 - 600 (e.g. Motor Oil)                  601 - 10,000 (e.g. Molasses)                  &gt; 10,000</p>	<p><b>COLOR</b></p> <p><u>Varies</u></p>		
<p><b>ODOR</b></p> <p>NONE  <input checked="" type="checkbox"/> MILD                  STRONG                  Describe: _____</p>	<p><b>BOILING POINT °F (°C)</b></p> <p>&lt;= 95 (&lt;=35)  <u>95 - 100 (35-38)</u>  <u>101 - 129 (38-54)</u>                  &gt;= 130 (&gt;=54)</p>	<p><b>MELTING POINT °F (°C)</b></p> <p>&lt; 140 (&lt;60)  <input checked="" type="checkbox"/> 140-200 (60-93)  <input checked="" type="checkbox"/> &gt; 200 (&gt;93)</p>	<p><b>TOTAL ORGANIC CARBON</b></p> <p>&lt;= 1% <u>VOCs =</u>  <input checked="" type="checkbox"/> 1-9% <u>-0-</u>                  &gt;= 10% <u>PM</u></p>		
<p><b>FLASH POINT °F (°C)</b></p> <p>&lt; 73 (&lt;23)                  73 - 100 (25-38)  <input checked="" type="checkbox"/> 101 - 140 (38-59)                  141 - 200 (60-93)  <input checked="" type="checkbox"/> &gt; 200 (&gt;93)</p>	<p><b>pH</b></p> <p>&lt;= 2                  2.1 - 6.9  <input checked="" type="checkbox"/> 7 (Neutral)                  7.1 - 12.4                  &gt;= 12.5</p>	<p><b>SPECIFIC GRAVITY</b></p> <p>&lt; 0.8 (e.g. Gasoline)                  0.8 - 1.0 (e.g. Ethanol)                  1.0 (e.g. Water)                  1.0 - 1.2 (e.g. Antifreeze)  <input checked="" type="checkbox"/> &gt; 1.2 (e.g. Methylene Chloride)</p>	<p><b>ASH</b></p> <p>&lt; 0.1    &gt; 20                  0.1 - 1.0    <input checked="" type="checkbox"/> Unknown                  1.1 - 5.0                  5.1 - 20.0</p>	<p><b>BTU/LB (M.J/kg)</b></p> <p>&lt; 2,000 (&lt;4.5)                  2,000 - 5,000 (4.6-11.6)  <input checked="" type="checkbox"/> 5,000 - 10,000 (11.6-23.2)                  &gt; 10,000 (&gt;23.2)</p>	<p>Actual: _____</p> <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: auto;"> <p><i>acceptable</i>                      01/11/16</p> </div>

**D. COMPOSITION** (List the complete composition of the waste, include any inert components and/or debris. Ranges for individual components are acceptable. If a trade name is used, please supply an MSDS. Please do not use abbreviations.)

CHEMICAL	MIN	--	MAX	UOM
AMMONIUM NITRATE	25.0000000	--	58.0000000	%
SETTLED SOLIDS	5.0000000	--	20.0000000	%
SODIUM NITRATE	15.0000000	--	25.0000000	%
WATER	60.0000000	--	75.0000000	%

DOES THIS WASTE CONTAIN ANY HEAVY GAUGE METAL DEBRIS OR OTHER LARGE OBJECTS (EX. METAL PLATE OR PIPING >1/4" THICK OR >12" LONG, METAL REINFORCED HOSE >12" LONG, METAL WIRE >12" LONG, METAL VALVES, PIPE FITTINGS, CONCRETE REINFORCING BAR OR PIECES OF CONCRETE >3")?    YES  NO

If yes, describe, including dimensions:

DOES THIS WASTE CONTAIN ANY METALS IN POWDERED OR OTHER FINELY DIVIDED FORM?    YES  NO

DOES THIS WASTE CONTAIN OR HAS IT CONTACTED ANY OF THE FOLLOWING: ANIMAL WASTES, HUMAN BLOOD, BLOOD PRODUCTS, BODY FLUIDS, MICROBIOLOGICAL WASTE, PATHOLOGICAL WASTE, HUMAN OR ANIMAL DERIVED SERUMS OR PROTEINS OR ANY OTHER POTENTIALLY INFECTIOUS MATERIAL?    YES  NO

I acknowledge that this waste material is neither infectious nor does it contain any organism known to be a threat to human health. This certification is based on my knowledge of the material. Select the answer below that applies:

The waste was never exposed to potentially infectious material.    YES    NO

Chemical disinfection or some other form of sterilization has been applied to the waste.    YES    NO

I ACKNOWLEDGE THAT THIS PROFILE MEETS THE CLEAN HARBORS BATTERY PACKAGING REQUIREMENTS.    YES    NO

I ACKNOWLEDGE THAT MY FRASILE ASBESTOS WASTE IS DOUBLE BAGGED AND WETTED.    YES    NO

SPECIFY THE SOURCE CODE ASSOCIATED WITH THE WASTE.

G11

SPECIFY THE FORM CODE ASSOCIATED WITH THE WASTE. W/210

**E. CONSTITUENTS**

Are these values based on testing or knowledge?  Knowledge  Testing

If based on knowledge, please describe in detail, the rationale applied to identify and characterize the waste material. Please include reference to Material Safety Data Sheets (MSDS) when applicable. Include the chemical or trade-name represented by the MSDS, and/or detailed process or operating procedures which generate the waste.

Generator knows the process and an SDS will be attached to this profile

Please indicate which constituents below apply. Concentrations must be entered when applicable to assist in accurate review and expedited approval of your waste profile. Please note that the total regulated metals and other constituents sections require answers.

RCRA	REGULATED METALS	REGULATORY LEVEL (mg/l)	TCLP (mg/l)	TOTAL	UOM	NOT APPLICABLE
D004	ARSENIC	5.0	0.020 U	0.69	mg/kg	<input checked="" type="checkbox"/>
D005	BARIUM	100.0	2.0	45		<input type="checkbox"/>
D006	CADMIUM	1.0	0.010 U	ND		<input type="checkbox"/>
D007	CHROMIUM	5.0	0.020 U	1.0		<input type="checkbox"/>
D008	LEAD	5.0	0.025 U	5.2		<input type="checkbox"/>
D009	MERCURY	0.2	0.002 U	ND		<input type="checkbox"/>
D010	SELENIUM	1.0	0.77	19		<input type="checkbox"/>
D011	SILVER	5.0	0.005	ND	mg/kg	<input type="checkbox"/>

VOLATILE COMPOUNDS		OTHER CONSTITUENTS	MAX	UOM	NOT APPLICABLE
D013	BENZENE	BROMINE			<input checked="" type="checkbox"/>
D019	CARBON TETRACHLORIDE	CHLORINE			<input checked="" type="checkbox"/>
D021	CHLOROBENZENE	CHLORINE			<input checked="" type="checkbox"/>
D022	CHLOROFORM	FLUORINE			<input checked="" type="checkbox"/>
D026	1,2-DICHLOROETHANE	IODINE			<input checked="" type="checkbox"/>
D029	1,1-DICHLOROETHYLENE	SULFUR			<input checked="" type="checkbox"/>
D035	METHYL ETHYL KETONE	POTASSIUM			<input checked="" type="checkbox"/>
D036	TETRACHLOROETHYLENE	SODIUM			<input checked="" type="checkbox"/>
D040	TRICHLOROETHYLENE	AMMONIA			<input checked="" type="checkbox"/>
D043	VINYL CHLORIDE	CYANIDE AMENABLE			<input checked="" type="checkbox"/>
SEMI-VOLATILE COMPOUNDS		CYANIDE REACTIVE			<input checked="" type="checkbox"/>
D023	o-CRESOL	CYANIDE TOTAL			<input checked="" type="checkbox"/>
D024	m-CRESOL	SULFIDE REACTIVE			<input checked="" type="checkbox"/>
D025	p-CRESOL				
D028	CRESOL (TOTAL)				
D027	1,4-DICHLOROBENZENE				
D030	2,4-DINITROTOLUENE				
D032	HEXACHLOROBENZENE				
D033	HEXACHLOROBUTADIENE				
D034	HEXACHLOROETHANE				
D039	NITROBENZENE				
D037	PENTACHLOROPHENOL				
D038	PYRIDINE				
D041	2,4,6-TRICHLOROPHENOL				
D042	2,4,6-TRICHLOROPHENOL				

PESTICIDES AND HERBICIDES		
D012	ENDRIN	0.02
D013	LINDANE	0.4
D014	METHOXYCHLOR	10.0
D015	TOXAPHENE	0.5
D016	2,4-D	10.0
D017	2,4,5-TP (SILVEX)	1.0
D020	CHLORDANE	0.05
D031	HEPTACHLOR (AND ITS EPOXIDE)	0.055

HCCs	PCBS
<input checked="" type="checkbox"/> NONE	<input checked="" type="checkbox"/> NONE
<input type="checkbox"/> < 1000 PPM	<input type="checkbox"/> < 50 PPM
<input type="checkbox"/> >= 1000 PPM	<input type="checkbox"/> >= 50 PPM
IF PCBS ARE PRESENT, IS THE WASTE REGULATED BY TSCA 40 CFR 76.17	
	YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>

**ADDITIONAL HAZARDS**

DOES THIS WASTE HAVE ANY UNDISCLOSED HAZARDS OR PRIOR INCIDENTS ASSOCIATED WITH IT, WHICH COULD AFFECT THE WAY IT SHOULD BE HANDLED?

YES  NO  (If yes, explain)

CHOOSE ALL THAT APPLY

- |                          |             |                   |                            |
|--------------------------|-------------|-------------------|----------------------------|
| DEA REGULATED SUBSTANCES | EXPLOSIVE   | FUMING            | OSHA REGULATED CARCINOGENS |
| POLYMERIZABLE            | RADIOACTIVE | REACTIVE MATERIAL | NONE OF THE ABOVE          |



**F. REGULATORY STATUS**

YES  NO USEPA HAZARDOUS WASTE? \_\_\_\_\_

YES  NO DO ANY STATE WASTE CODES APPLY? \_\_\_\_\_  
 Texas Waste Code \_\_\_\_\_

YES  NO DO ANY CANADIAN PROVINCIAL WASTE CODES APPLY? \_\_\_\_\_

YES  NO IS THIS WASTE PROHIBITED FROM LAND DISPOSAL WITHOUT FURTHER TREATMENT PER 40 CFR PART 238? \_\_\_\_\_  
 LDR CATEGORY: VARIANCE INFO: Not subject to LDR

YES  NO IS THIS A UNIVERSAL WASTE? \_\_\_\_\_

YES  NO IS THE GENERATOR OF THE WASTE CLASSIFIED AS CONDITIONALLY EXEMPT SMALL QUANTITY GENERATOR (CESQG)? \_\_\_\_\_

YES NO IS THIS MATERIAL GOING TO BE MANAGED AS A RCRA EXEMPT COMMERCIAL PRODUCT, WHICH IS FUEL (40 CFR 261.2 (C)(2)(II))? \_\_\_\_\_

YES  NO DOES TREATMENT OF THIS WASTE GENERATE A F008 OR F019 SLUDGE? \_\_\_\_\_

YES NO IS THIS WASTE STREAM SUBJECT TO THE INORGANIC METAL BEARING WASTE PROHIBITION FOUND AT 40 CFR 268.8(C)? \_\_\_\_\_

YES  NO DOES THIS WASTE CONTAIN VOC'S IN CONCENTRATIONS >= 300 PPM? \_\_\_\_\_

YES NO DOES THE WASTE CONTAIN GREATER THAN 20% OF ORGANIC CONSTITUENTS WITH A VAPOR PRESSURE >= .3KPA (.044 PSIA)? \_\_\_\_\_

YES  NO DOES THIS WASTE CONTAIN AN ORGANIC CONSTITUENT WHICH IN ITS PURE FORM HAS A VAPOR PRESSURE > 77 KPA (11.2 PSIA)? \_\_\_\_\_

YES  NO IS THIS CERCLA REGULATED (SUPERFUND) WASTE? \_\_\_\_\_

YES  NO IS THE WASTE SUBJECT TO ONE OF THE FOLLOWING NESHAP RULES?  
 Hazardous Organic NESHAP (HON) rule (subset G)      Pharmaceuticals production (subset GG6)

YES NO IF THIS IS A US EPA HAZARDOUS WASTE, DOES THIS WASTE STREAM CONTAIN BENZENE?  
 YES NO Does the waste stream come from a facility with one of the SIC codes listed under benzene NESHAP or is this waste regulated under the benzene NESHAP rules because the original source of the waste is from a chemical manufacturing, coke by-product recovery, or petroleum refinery process?  
 YES NO Is the generating source of this waste stream a facility with Total Annual Benzene (TAB) > 10 Mg/year?  
 What is the TAB quantity for your facility? \_\_\_\_\_ Mg/year (1 Mg = 2,200 lbs)  
 The basis for this determination is: Knowledge of the Waste Or Test Data      Knowledge      Testing  
 Describe the knowledge: \_\_\_\_\_

**G. DOT/IDG INFORMATION**

DOT/IDG PROPER SHIPPING NAME:  
**NON DOT REGULATED**

**H. TRANSPORTATION REQUIREMENTS**

ESTIMATED SHIPMENT FREQUENCY  ONE TIME    WEEKLY    MONTHLY    QUARTERLY    YEARLY    OTHER

CONTAINERIZED <u>0</u> CONTAINERS/SHIPMENT	<input checked="" type="checkbox"/> BULK LIQUID	BULK SOLID
STORAGE CAPACITY: CONTAINER TYPE:	GALLONS/SHIPMENT: <u>4000.00 Min - 5500.00</u> GAL. <u>Max</u>	SHIPMENT UOM:      TON      YARD TONS/YARDS/SHIPMENT: <u>0 Min - 0 Max</u>
CUBIC YARD BOX      PALLET		
TOTE TANK      DRUM		
OTHER:      DRUM SIZE:		

**I. SPECIAL REQUEST**

COMMENTS OR REQUESTS:

**GENERATOR'S CERTIFICATION**

I certify that I am authorized to execute this document as an authorized agent, I hereby certify that all information submitted in this and attached documents is correct to the best of my knowledge. I also certify that any samples submitted are representative of the actual waste. If Clean Harbors discovers a discrepancy during the approval process, Generator grants Clean Harbors the authority to amend the profile, as Clean Harbors deems necessary, to reflect the discrepancy.

AUTHORIZED SIGNATURE

NAME (PRINT)

TITLE

DATE

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

**Generator Waste Profile**

**Profile # 00767**

**GENERATOR INFORMATION**

Name: \_\_\_\_\_ USEPA ID: \_\_\_\_\_

Facility Address: \_\_\_\_\_ SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Contact: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Attention: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name: HCL & sludge from pickling metal

Process Generating Waste (Please be specific, incomplete information may delay the approval process): \_\_\_\_\_

Sludge removed from pickling tank during cleaning.

**USEPA / STATE WASTE IDENTIFICATION**

1. This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
2. Regulated by TSCA?  Yes  No (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 D007

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>acceptable</i> <i>01.07.16</i>
--	---	---	---	--------------------------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Muriatic acid 22 degrees 36%	30	50			%
water	30	40			%
dirt & scale	30	40			%
					%
					%

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Metals Analysis:  Lead Analysis  General Analysis  XRF  TOTAL

	Net Concentration		Net Concentration		Analytical Method (ppm)	DHA	DHA	DHA	DHA	DHA	DHA	DHA
	ppm	ppm	ppm	ppm								
As	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	As (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cd	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cd (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cr	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cr (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pb	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Pb (ppm)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mn (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fe	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Fe (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Zn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Zn (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cu	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cu (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Al	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Al (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Si	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Si (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ca	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Ca (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Mg	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mg (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Na	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Na (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
K	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	K (ppm)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Topographic Map - DGS above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING? At Least One Box Must Be Checked.

Radioactive  Water Reactor  Oxidizer  Shock Sensitive  Reactive (toxic)  DOT Explosives

Nickel-Hydrogen Fuel Cell Technologies  High Voltage (X-rays, etc)  Biological  None Apply

SHIPMENT INFORMATION

1. Is this DOT Hazardous Material (49 CFR 172.101 & 173 Subpart)?  Yes  No

2. Reporting Quantity (RQ) in pounds: 5000

3. DOT Shipping Name: Sodium Hydroxide  Hazard Class: 8 UNNA 1789

4. PU ID: 555 107 Hazardous Constituents for H.O.S.:

5. Method of transport:  Bulk Tanker  Van truck  Rail Car  Other

6. Number of Units in Ship Now: 4 7. Anticipated volume of Units per Year: 4 units in each month  One Time

8. Special Handling Requirements (including OSHA)

CERTIFICATION STATEMENT

I hereby represent and warrant that this person has examined and is familiar with the information contained on this form and all attached documents. Based on my inquiry and personal knowledge of these materials, I am authorized to certify that the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material has been omitted or made misleading. I understand that others may rely on this representation and warranty. I hereby warrant and represent that the waste material described herein is not a DOT Hazardous Material. If this box is checked, I, the Generator, shall be responsible for contacting my Environmental Geo-Technologies representative to ensure regulatory requirements.

Printed Name: [Redacted] Title: [Redacted]  
Signature: [Redacted] Date: [Redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: Please collect a representative liquid sample of the waste described in the above referenced Generator's Waste Facility Report using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods used in 49 CFR 173.30(a)(2)(1). PU to the sampling information by the generator provided above. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. SAMPLING METHOD \_\_\_\_\_ COLLECTION POINT \_\_\_\_\_

2. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER \_\_\_\_\_

3. Sample No. \_\_\_\_\_ Representative: Yes  No

4. CHAIN OF CUSTODY: Each person who handles the sample must sign below when the sample passes from one to another

Collected by (Signature)	Date	Time	Received by (Signature)	Date	Time



Brighton Analytical, L.L.C.  
 2105 Pless Drive  
 Brighton, Michigan 48116  
 Phone: (810) 229-7575 FAX: (810) 229-8650  
 e-mail: bai-brighton@sbcglobal.net

Sample Date: 4/21/2015  
 Submit Date: 4/21/2015  
 Report Date: 4/23/2015

To: [Redacted]

BA Report Number: 34181  
 BA Sample ID: CB03731

Project Name: [Redacted]  
 Project Number: [Redacted]  
 Sample ID: Pickle Liquor

Parameters	Results	Units	DL	Method Reference	Analyst	Analysis Date
<b>TCLP Metal Analysis</b>						
TCLP Arsenic	Not detected	ug/L	2000	SW846 6020	LT	4/22/2015
TCLP Barium	Not detected	ug/L	1000	SW846 6020	LT	4/22/2015
TCLP Cadmium	Not detected	ug/L	400	SW846 6020	LT	4/22/2015
TCLP Chromium	93000	ug/L	100	SW846 6020	LT	4/22/2015
TCLP Copper	52000	ug/L	1000	SW846 6020	LT	4/22/2015
TCLP Lead	Not detected	ug/L	2000	SW846 6020	LT	4/22/2015
TCLP Mercury	Not detected	ug/L	50	SW846 7470A	LS	4/23/2015
TCLP Selenium	Not detected	ug/L	3000	SW846 6020	LT	4/22/2015
TCLP Silver	Not detected	ug/L	1000	SW846 6020	LT	4/22/2015
TCLP Zinc	5700	ug/L	70	SW846 6020	LT	4/22/2015
TCLP Mercury (digestion)	Digested			7470	LS	4/23/2015
TCLP Metal (digestion)	Digested			3015	HD	4/22/2015

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve MDNR designated target detection limits (TDL).

Released by: [Signature]  
 Date: 4/23/15

~~Elevated metal and mercury dl due to sample matrix.~~

Pickel Steel

# SAFETY DATA SHEET



## 1. Identification

Covestro LLC  
formerly Bayer MaterialScience LLC  
1 Covestro Circle  
Pittsburgh, PA 15205  
USA

**TRANSPORTATION EMERGENCY**  
CALL CHEMTREC: (800) 424-9300  
INTERNATIONAL: (703) 527-3887

**NON-TRANSPORTATION**  
Emergency Phone: Call Chemtrec  
Information Phone: (844) 646-0545

Product Name: 22 DEGREE BAUME MURIATIC ACID (36%)  
Material Number: 2924734  
Use: Steel pickling, oil and gas drilling, and calcium chloride production.

## 2. Hazards Identification

**GHS Classification**  
Acute toxicity (Inhalation): Category 3  
Skin corrosion: Category 1A  
Serious eye damage: Category 1  
Specific target organ toxicity - single exposure: Category 3 (Respiratory system)  
Corrosive to metals: Category 1

**GHS Label Elements**  
Hazard pictograms:



Signal word: Danger

Hazard statements:  
Toxic if inhaled.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.  
May be corrosive to metals.

Precautionary statements:  
**Prevention:**  
Avoid breathing dust, mist, gas, vapors or spray.  
Wash skin and face thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear permeation resistant protective gloves and clothing. Wear eye and face protection.

Material Name: 22 DEGREE BAUME MURIATIC ACID (36%) | Material Number: 2924734

Keep only in original container.

**Response:**

Immediately call a doctor or emergency medical facility (i.e., 911).

**IF SWALLOWED:** rinse mouth. Do NOT induce vomiting.

**IF ON SKIN (or hair):** Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

**IF IN EYES:** Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

**IF INHALED:** Remove person to fresh air and keep at rest in a position comfortable for breathing.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

**Storage:**

Store in a well-ventilated place.

Store locked up.

Store in corrosive resistant polypropylene container with a resistant liner.

**Disposal:**

Dispose of contents and container in accordance with existing federal, state, and local environmental control laws.

**3. Composition/Information on Ingredients**

**Hazardous Components**

<u>Weight Percent</u>	<u>Components</u>	<u>CAS-No.</u>	<u>Classification</u>
30 - 50%	Hydrochloric Acid	7647-01-0	Acute toxicity Category 3 Inhalation, Skin corrosion Category 1A. Serious eye damage Category 1. Specific target organ toxicity - single exposure Category 3 Respiratory system. Corrosive to metals Category 1.

The specific chemical identity and/or exact percentage of component(s) have been withheld as a trade secret.

**4. First Aid Measures**

**Most Important Symptom(s)/Effect(s)**

**Acute:** Causes serious eye damage with symptoms of eye burns, corneal injury, and possible blindness. Causes severe skin burns with symptoms of necrosis and possible scarring. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Corrosive to the digestive tract with symptoms of burning and ulceration.

**Eye Contact**

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Use fingers to ensure that eyelids are separated and that the eye is being irrigated. Call a physician immediately.

**Skin Contact**

Material Name: 22 DEGREE BAUME MURATIC ACID (36%)

Material Number: 2924734

Wash off immediately with plenty of water for at least 15 minutes. Immediately remove contaminated clothing and shoes. Call a physician immediately. Wash clothing and shoes before reuse.

#### Inhalation

If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration using a pocket mask type resuscitator. Call a physician immediately.

#### Ingestion

Do not induce vomiting. If conscious, give 2 glasses of water. Get immediate medical attention. Never give anything by mouth to an unconscious person.

### 5. Firefighting Measures

**Suitable Extinguishing Media:** Carbon dioxide (CO<sub>2</sub>), Foam, Dry chemical

**Unsuitable Extinguishing Media** No Data Available

#### Fire Fighting Procedure

Firefighters should be equipped with self-contained breathing apparatus to protect against potentially toxic and irritating fumes. Use cold water spray to cool fire-exposed containers to minimize the risk of rupture.

#### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Hydrochloric Acid

Other decomposition products Hydrogen Chlorine

#### Unusual Fire/Explosion Hazards

Water runoff from fire fighting may be corrosive. Contact with metals liberates flammable gas. Corrosive gases/fumes may be given off during burning of thermal decomposition.

### 6. Accidental Release Measures

#### Spill and Leak Procedures

Cleanup personnel must use appropriate personal protective equipment. Cover spill with inert material (e. g., dry sand or earth) and collect for proper disposal. Do not allow spilled material or wash water to enter sewers, surface waters, or groundwater systems. Large spills should be contained and pumped into original or similar containers. Ventilate area to remove vapors or dust. Knock down vapors or dust with water spray or water fog. Cover spill with alkaline absorbent (e. g., soda ash, sodium bicarbonate, or dry lime) and collect for proper disposal. Wash spill area with water. Collect wash water for approved disposal.

### 7. Handling and Storage

#### Handling/Storage Precautions

Do not breathe vapours or spray mist. Do not get on skin or clothing. Do not get in eyes. Do not taste or swallow. Use only with adequate ventilation/personal protection. Wash thoroughly after handling. Keep container closed when not in use.

#### Storage Period:

Unlimited in tightly closed containers.

#### Storage Conditions

Material can be stored safely at ambient temperatures. Avoid contact with moisture/water.

**Substances to Avoid**

Metals, Bases, Active metals, Alkali metals, Oxidizing agents

**8. Exposure Controls/Personal Protection**

**Hydrochloric Acid (7647-01-0)**

US. ACGIH Threshold Limit Values

Ceiling Limit Value: 2 ppm

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Ceiling Limit Value: 5 ppm, 7 mg/m<sup>3</sup>

US. ACGIH Threshold Limit Values

Hazard Designation: Group A4 Not classifiable as a human carcinogen.

Any component which is listed in section 3 and is not listed in this section does not have a known ACGIH TLV, OSHA PEL or supplier recommended occupational exposure limit.

**Industrial Hygiene/Ventilation Measures**

General dilution and local exhaust as necessary to control airborne vapors, mists, dusts and thermal decomposition products below appropriate airborne concentration standards/guidelines.

**Respiratory Protection**

NIOSH approved air-purifying acid gas respirator.

**Hand Protection**

Acid resistant gloves.

**Eye Protection**

Chemical resistant goggles must be worn. Chemical safety goggles in combination with a full face shield if a splash hazard exists.

**Skin Protection**

Acid resistant coat, Acid resistant overalls

**Additional Protective Measures**

Employees should wash their hands and face before eating, drinking, or using tobacco products. Educate and train employees in the safe use and handling of this product. Emergency showers and eye wash stations should be available. Full body acid resistant suits and positive pressure, self-contained breathing apparatus should be available in case of large spills or other similar emergencies.

**9. Physical and Chemical Properties**

State of Matter:	liquid
Color:	Colorless to light yellow
Odor:	Pungent, strong
Odor Threshold:	No Data Available
pH:	< 1.5 Acidic, in solution
Freezing Point:	Approximately -32.22 °C (-26 °F)
Boiling Point:	61.11 - 63.33 °C (142 - 146 °F)
Flash Point:	No Data Available

Material Name: 22 DEGREE BAUMB MURIATIC ACID (36%)

Material Number 2924734



Evaporation Rate:	No Data Available
Lower explosion limit:	No Data Available
Upper Explosion Limit:	No Data Available
Vapor Pressure:	Approximately 75 mmHg @ 20 °C (68 °F)
Vapor Density:	No Data Available
Density:	No Data Available
Relative Vapor Density:	No Data Available
Specific Gravity:	Approximately 1.18 @ 20 °C (68 °F)
Solubility in Water:	Soluble
Partition Coefficient: n-octanol/water:	No Data Available
Auto-ignition Temperature:	No Data Available
Decomposition Temperature:	Not established
Dynamic Viscosity:	no data available
Kinematic Viscosity:	no data available
Bulk Density:	Approximately 1,198 kg/m <sup>3</sup>

### 10. Stability and Reactivity

#### Hazardous Reactions

Hazardous polymerisation does not occur.

#### Stability

Stable

#### Materials to Avoid

Metals, Bases, Active metals, Alkali metals, Oxidizing agents

#### Conditions to Avoid

Avoid contact with moisture / water.

#### Hazardous Decomposition Products

By Fire and Thermal Decomposition: Hydrochloric Acid;

Other decomposition products Hydrogen; Chlorine;

### 11. Toxicological Information

#### Likely Routes of Exposure:

Skin Contact

Eye Contact

Ingestion

Inhalation

#### Health Effects and Symptoms

**Acute:** Causes serious eye damage with symptoms of eye burns, corneal injury, and possible blindness. Causes severe skin burns with symptoms of necrosis and possible scarring. May cause respiratory tract irritation with symptoms of coughing, sore throat and runny nose. Corrosive to the digestive tract with symptoms of burning and ulceration.

**Chronic:** Not expected to cause adverse chronic health effects.

#### Toxicity Data for: 22 DEGREE BAUME MURIATIC ACID (36%)

#### Toxicity Data for Hydrochloric Acid

**Acute Oral Toxicity**

LD50: 700 mg/kg (rat)

Material Name: 22 DEGREE BAUME MURIATIC ACID (36%)

Material Number: 2924754

In 31.5% solution with water

**Acute Inhalation Toxicity**

LC50: 1.0375 mg/l, 4 h, dust/mist(rat, male)  
4 hour test is calculated.

LC50: 8.3 mg/l, 0.5 h, dust/mist(rat, male)

LC50: 4701 ppm, 0.5 h, gas(rat, male)

**Acute Dermal Toxicity**

LD50: 1449 mg/kg (Mouse)

**Skin Irritation**

Human, Corrosive

**Eye Irritation**

Human, Corrosive

**Sensitization**

dermal: non-sensitizer (Mouse, Mouse ear swelling test)

dermal: non-sensitizer (Human, Patch Test)

(Patch Test)

**Repeated Dose Toxicity**

7 weeks, Inhalation: NOABL: 0.015 mg/l, (Guinea pig, male)

13 weeks, Inhalation: NOABL: 20 ppm, LOABL: 50 ppm, (Guinea pig, male/female, 6 hrs/day 5 days/week)

**Mutagenicity**

**Genetic Toxicity in Vitro:**

Ames: negative (Salmonella typhimurium, Metabolic Activation: with/without)

Positive and negative results were seen in various in vitro studies.

Mammalian cell - gene mutation assay: positive (Mouse lymphoma cells (L5178Y/TK), Metabolic Activation: with/without)

Positive and negative results were seen in various in vitro studies.

Chromosome aberration test: ambiguous (Chinese hamster ovary (CHO) cells, Metabolic Activation: with/without)

Positive and negative results were seen in various in vitro studies.

**Genetic Toxicity in Vivo:**

Drosophila SLRL test: (Drosophila melanogaster, male, inhalation)

positive

**Carcinogenicity**

Rat, male, inhalation, 6 hrs/day 5 days/week No carcinogenic effects observed at the doses tested.

Exposure measured over a lifetime. Mouse, oral, daily Exposure measured over 11 months. Rat, male,

Inhalation, 128 weeks, 6 hrs/day 5 days/week

NOAEL: <10ppm

negative

**Developmental Toxicity/Teratogenicity**

rat, female, inhalation, NOAEL (teratogenicity): 0.45 mg/l, NOAEL (maternal): <0.45 mg/l, Exposure

Material Name: 22 DEGREE BAUMH MURIATIC ACID (36%)

Material Number: 2924734

measured during prenatting and gestation.  
Fetotoxicity seen only with maternal toxicity. No Teratogenic effects observed at doses tested.

**Other Relevant Toxicity Information**  
May cause irritation of respiratory tract.

**Carcinogenicity:**

No carcinogenic substances as defined by IARC, NTP and/or OSHA

**12. Ecological Information**

**Ecological Data for Hydrochloric Acid**

**Biodegradation**

The methods for determining the biological degradability are not applicable to inorganic substances.

**Acute and Prolonged Toxicity to Fish**

LC50: 282 mg/L (pH 5.0 - 8.2) (Mosquitofish (*Gambusia affinis*), 96 h)

**Additional Ecotoxicological Remarks**

Harmful ecological effects due to the pH shift are expected.

**13. Disposal Considerations**

**Waste Disposal Method**

Waste disposal should be in accordance with existing federal, state and local environmental control laws.

**Empty Container Precautions**

Recondition or dispose of empty container in accordance with governmental regulations. Do not reuse empty container without proper cleaning. Label precautions also apply to this container when empty.

**14. Transportation Information**

**Land transport (DOT)**

Proper Shipping Name:	Hydrochloric acid
Hazard Class or Division:	8
UN/NA Number:	UN1789
Packaging Group:	II
Hazard Label(s):	Corrosive

**RSPA/DOT Regulated Components:**

Hydrochloric Acid

Reportable Quantity: 6300 kg (13889 lb)

**Sea transport (IMDG)**

Proper Shipping Name:	HYDROCHLORIC ACID
Hazard Class or Division:	8
UN number:	UN1789
Packaging Group:	II
Hazard Label(s):	CORROSIVE

**Air transport (ICAO/IATA)**

Material Name: 22 DEGRÉS BAUME MURIATIC ACID (36%)

Material Number: 2924734

Proper Shipping Name: Hydrochloric acid  
 Hazard Class or Division: 8  
 UN number: UN1789  
 Packaging Group: II  
 Hazard Label(s): CORROSIVE

**15. Regulatory Information**

United States Federal Regulations

**US. Toxic Substances Control Act:** Listed on the TSCA Inventory.

No substances are subject to TSCA 12(b) export notification requirements.  
**US. EPA CERCLA Hazardous Substances (40 CFR 302) Components:**  
 Hydrochloric Acid Reportable quantity: 5000 lbs

**SARA Section 311/312 Hazard Categories:**  
 Acute Health Hazard, Reactivity Hazard

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A) Components:**  
 Hydrochloric Acid

**US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required Components:**  
 Hydrochloric Acid

**US. EPA Resource Conservation and Recovery Act (RCRA) Composite List of Hazardous Wastes and Appendix VIII Hazardous Constituents (40 CFR 261):**  
 Under RCRA, it is the responsibility of the person who generates a solid waste, as defined in 40 CFR 261.2, to determine if that waste is a hazardous waste. In its purchased form, this product meets the criteria of corrosivity under 40 CFR 261.22(a), and, when discarded in that form, should be managed as a hazardous waste.

State Right-To-Know Information

The following chemicals are specifically listed by individual states; other product specific health and safety data in other sections of the SDS may also be applicable for state requirements. For details on your regulatory requirements you should contact the appropriate agency in your state.

The concentrations reported below in units of parts per million (ppm) or parts per billion (ppb) are maximum values.

Massachusetts, New Jersey or Pennsylvania Right to Know Substance Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
>=1%	Water	7732-18-3
30-40%	Hydrochloric Acid	7647-01-0

New Jersey Environmental Hazardous Substances List and/or New Jersey RTK Special Hazardous Substances Lists:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
30-40%	Hydrochloric Acid	7647-01-0

Massachusetts Right to Know Extraordinarily Hazardous Substance List:

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
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30 - 40%

Hydrochloric Acid

7647-01-0

**California Prop. 65:**

Warning! This product contains chemical(s) known to the State of California to be Carcinogenic, Developmental toxin, Female reproductive toxin, Male reproductive toxin.

<u>Weight percent</u>	<u>Components</u>	<u>CAS-No.</u>
0.01 ppb	Aniline	62-53-3
100 ppb	Chloroform	67-66-3
50 ppb	Benzene	71-43-2
0.5 ppm	Methylene Chloride	75-09-2
100 ppb	1,1-Dichloroethane	75-34-3
0.5 ppm	Carbon Tetrachloride	56-23-5
0.5 ppm	Benzyl Chloride	100-44-7
100 ppb	p-Dichlorobenzene	106-46-7
0.5 ppm	1,2-Dichloroethane	107-06-2
0.5 ppm	Toluene	108-88-3
100 ppb	Hexachlorobenzene	118-74-1

Based on information provided by our suppliers, this product is considered "DRC Conflict Free" as defined by the SEC Conflict Minerals Final Rule (Release No. 34-67716; File No. 87-40-10; Date: 2012-08-22).

**16. Other Information**

The method of hazard communication for Covestro LLC is comprised of Product Labels and Safety Data Sheets.

Contact: Product Safety Department  
Telephone: (412) 413-2835  
SDS Number: 112000032161  
Version Date: 08/28/2015  
SDS Version: 2.0

This information is furnished without warranty, express or implied. This information is believed to be accurate to the best knowledge of Covestro LLC. The information in this SDS relates only to the specific material designated herein. Covestro LLC assumes no legal responsibility for use of or reliance upon the information in this SDS.

|| Changes since the last version are highlighted in the margin. This version replaces all previous versions.

FINGERPRINT FORM

00767  
ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/6/16
Receiving ID#	HCl + Sludge
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION		OTHER ANALYSES	
Waste Streams			
Compatible? (RT# )	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.35	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	Yes <input checked="" type="radio"/> No <input type="radio"/>	Sulfate	
Oil in Sample	Yes <input checked="" type="radio"/> No <input type="radio"/>		
Temperature	58°F		
Conductivity	204.7 mS		
% Solids	47.4		
Turbidity	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Color (visual)	Green		
TSS (%)	9.0		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID # [REDACTED]  
 Facility Address: [REDACTED] SIC/NAICS Code: [REDACTED] State Code: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Contact: [REDACTED] Title: [REDACTED] Phone: ( ) [REDACTED] Fax: ( ) [REDACTED]

**BILLING INFORMATION: SAME AS ABOVE**

Company Name: [REDACTED]  
 Address: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Attention: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Waste Water

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Water used in bath where parts are dipped. When spent we dispose they cool and call for pick up.

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: 021L 029L

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> < 0.8 <input type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<i>acceptable</i> 0.100.16
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pH:  NA  ≤ 2  2 - 4  4 - 6  6 - 8  8 - 10  10 - 12.5  ≥ 12.5

Liquid Flash Point:  < 73°F  73 - 100°F  101 - 140°F  141 - 200°F  > 200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>5</u> <u>Waste Water</u>					
<u>Oil</u>					
<u>Solids</u>					

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

Lab Analysis  Generator Knowledge  TCLP  TOTAL

Not Concentration		Not Concentration						
Present	ppm	Present	ppm					
PCB	<input type="checkbox"/>	Aromatic Amine	<input type="checkbox"/>	Arsenic (As)	D004	<input type="checkbox"/>	< 5 ppm	ppm
Dioxins	<input type="checkbox"/>	Pesticides	<input type="checkbox"/>	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm	ppm
Cyanides Reactive	<input type="checkbox"/>	Rodenticides	<input type="checkbox"/>	Cadmium (Cd)	D008	<input type="checkbox"/>	< 1 ppm	ppm
Cyanides Total	<input type="checkbox"/>	Fungicides	<input type="checkbox"/>	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm	ppm
Sulfides Reactive	<input type="checkbox"/>			Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm	ppm
Sulfides Total	<input type="checkbox"/>			Mercury (Hg)	D009	<input type="checkbox"/>	< 0.2 ppm	ppm
				Selenium (Se)	D010	<input type="checkbox"/>	< 1 ppm	ppm
				Silver (Ag)	D011	<input type="checkbox"/>	< 5 ppm	ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

**IS WASTE ANY OF THE FOLLOWING?** At Least One Box Must Be Checked.

Radioactive  Water Reactive  Oxidizer  Shock Sensitive  Reactive (other)  DOT Explosives  
 NIOSH Human-Positive Carcinogens  NESHAP Wastes (Benzene, etc.)  Biological  None Apply

**SHIPPING INFORMATION**

- 1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
- 2. Reportable Quantity (RQ) in pounds: 3000 to 7000 galls
- 3. DOT Shipping Name: Waste non-DOT, non-RCRA material Hazard Class: \_\_\_\_\_ UN/NA: \_\_\_\_\_
- PG: \_\_\_\_\_ ERG: \_\_\_\_\_ Hazardous Constituents for "h.o.s.": \_\_\_\_\_
- 4. Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes
- 5. Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume / Units per year: \_\_\_\_\_ or  One Time
- 6. Special Handling Requirements including PPE: \_\_\_\_\_

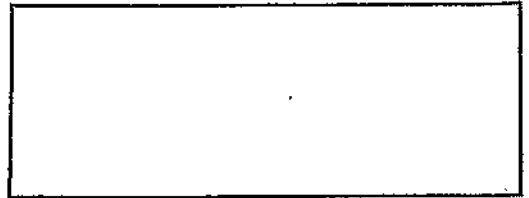
**CERTIFICATION STATEMENT**

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:** PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- 1.          2.           
 SAMPLING METHOD                          COLLECTION POINT
- 3.           
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
- 4. Sample No.          Preservation: Yes  No



**5. CHAIN OF CUSTODY** Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time



FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/8/16
Receiving ID#	Waste Water
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION		Oil & Grease Only	
Compatible? (RT# )	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	8.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.14	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	60°F		
Conductivity	105.4 mS		
% Solids	7.6		
Turbidity	(Yes) No		
Color (visual)	Brown		
TSS (%)	8.5		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

28470 Clinch Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

**Generator Waste Profile**

Profile # **00769**

**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID # \_\_\_\_\_  
 Facility Address: [REDACTED] SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: [REDACTED] State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED]

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Acid

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Hot DIP GALVANIZING MURK

**USEPA / STATE WASTE IDENTIFICATION:**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCEs, etc.)
- List ALL Applicable Waste Codes: 0002

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other: <u>Other</u>	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> >5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other: <u>1.32</u>	acceptable 011816
--	--	---	--	----------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 ppm (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT ≥ 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Hypochlorite Acid</u>	<u>40</u>	<u>0</u>			
<u>Water</u>	<u>70</u>	<u>30</u>			
<u>Solids</u>	<u>50</u>	<u>30</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

Lab Analysis  Generator Knowledge  TCLP  TOTAL

	Not Present	Concentration		Not Present	Concentration							
PCB	<input checked="" type="checkbox"/>	ppm	Aromatic Amins	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input type="checkbox"/>	<	5	ppm	ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm	Barium (Ba)	D005	<input type="checkbox"/>	<	100	ppm	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm	Cadmium (Cd)	D008	<input type="checkbox"/>	<	1	ppm	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	<	5	ppm	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm				Lead (Pb)	D008	<input type="checkbox"/>	<	5	ppm	ppm
Sulfides Total	<input type="checkbox"/>	ppm				Mercury (Hg)	D009	<input type="checkbox"/>	<	0.2	ppm	ppm
						Selenium (Se)	D010	<input type="checkbox"/>	<	1	ppm	ppm
						Silver (Ag)	D011	<input type="checkbox"/>	<	6	ppm	ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
- Reportable Quantity (RQ) in pounds \_\_\_\_\_
- DOT Shipping Name \_\_\_\_\_ Hazard Class \_\_\_\_\_ UNNA \_\_\_\_\_
- PG \_\_\_\_\_ ERG \_\_\_\_\_ Hazardous Constituents for "n.p.s." \_\_\_\_\_
- Method of Shipment:  Bulk Tanker  Vac. truck  Rail Car  Drums  Totes *N 4500 gal / Total 7 tanks / call*
- Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume/ Units per Year: 200,000g or  One Time
- Special Handling Requirements including PPE: \_\_\_\_\_

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be identical with the results of the sample characterization laboratory requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- GAAD 2. "Rid" Kettle Tank

3. \_\_\_\_\_  
SAMPLE OF \_\_\_\_\_, TITLE, AND LOVER

4. Sample No. \_\_\_\_\_ Preservation: Yes  No

5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
_____	_____	_____	_____	_____	_____

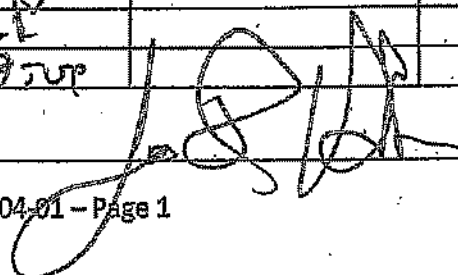
FINGERPRINT FORM

00769

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/8/16
Receiving ID#	Acid
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	C/est

TEST INFORMATION		OTHER TESTS ONLY	
WASTE CHARACTERISTICS			
Compatible? (RT# )	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.32	TDS	
Physical Description	liquid w/ P	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	60°F		
Conductivity	209.9 uS		
% Solids	42.3		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID# [REDACTED]  
 Facility Address: [REDACTED] SIC/NAICS Code: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
Acid Rinse

Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
Acid Rinse Tank

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>green</u>	<b>Suspended Solids</b> <input type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input checked="" type="checkbox"/> >5% <u>25.6</u>	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other: <u>1.17</u>	<u>acceptable</u> <u>01/18/16</u>
---	--	---	--	--------------------------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT ≥ 0.1%)**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Hydrochloric Acid</u>	<u>20</u>	<u>0</u>			
<u>Water</u>	<u>79</u>	<u>50</u>			
<u>Solids</u>	<u>30</u>	<u>0</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator Knowledge-provide backup

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input checked="" type="checkbox"/> TOTAL																																																												
<table border="1"> <tr> <th>Not Present</th> <th>Concentration</th> <th>Not Present</th> <th>Concentration</th> </tr> <tr> <td>POB</td> <td>_____ ppm</td> <td>Aromatic Amine</td> <td>_____ ppm</td> </tr> <tr> <td>Dioxins</td> <td>_____ ppm</td> <td>Pesticides</td> <td>_____ ppm</td> </tr> <tr> <td>Cyanides Reactive</td> <td>_____ ppm</td> <td>Rodenticides</td> <td>_____ ppm</td> </tr> <tr> <td>Cyanides Total</td> <td>_____ ppm</td> <td>Fungicides</td> <td>_____ ppm</td> </tr> <tr> <td>Sulfides Reactive</td> <td>_____ ppm</td> <td></td> <td></td> </tr> <tr> <td>Sulfides Total</td> <td>_____ ppm</td> <td></td> <td></td> </tr> </table>		Not Present	Concentration	Not Present	Concentration	POB	_____ ppm	Aromatic Amine	_____ ppm	Dioxins	_____ ppm	Pesticides	_____ ppm	Cyanides Reactive	_____ ppm	Rodenticides	_____ ppm	Cyanides Total	_____ ppm	Fungicides	_____ ppm	Sulfides Reactive	_____ ppm			Sulfides Total	_____ ppm			<table border="1"> <tr> <td>Arsenic (As) D004</td> <td><input type="checkbox"/></td> <td>&lt; 5 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Barium (Ba) D006</td> <td><input type="checkbox"/></td> <td>&lt; 100 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Cadmium (Cd) D008</td> <td><input type="checkbox"/></td> <td>&lt; 1 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Chromium (Cr) D007</td> <td><input type="checkbox"/></td> <td>&lt; 5 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Lead (Pb) D008</td> <td><input type="checkbox"/></td> <td>&lt; 5 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Mercury (Hg) D009</td> <td><input type="checkbox"/></td> <td>&lt; 0.2 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Selenium (Se) D010</td> <td><input type="checkbox"/></td> <td>&lt; 1 ppm</td> <td>_____ ppm</td> </tr> <tr> <td>Silver (Ag) D011</td> <td><input type="checkbox"/></td> <td>&lt; 5 ppm</td> <td>_____ ppm</td> </tr> </table>		Arsenic (As) D004	<input type="checkbox"/>	< 5 ppm	_____ ppm	Barium (Ba) D006	<input type="checkbox"/>	< 100 ppm	_____ ppm	Cadmium (Cd) D008	<input type="checkbox"/>	< 1 ppm	_____ ppm	Chromium (Cr) D007	<input type="checkbox"/>	< 5 ppm	_____ ppm	Lead (Pb) D008	<input type="checkbox"/>	< 5 ppm	_____ ppm	Mercury (Hg) D009	<input type="checkbox"/>	< 0.2 ppm	_____ ppm	Selenium (Se) D010	<input type="checkbox"/>	< 1 ppm	_____ ppm	Silver (Ag) D011	<input type="checkbox"/>	< 5 ppm	_____ ppm
Not Present	Concentration	Not Present	Concentration																																																												
POB	_____ ppm	Aromatic Amine	_____ ppm																																																												
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Selenium (Se) D010	<input type="checkbox"/>	< 1 ppm	_____ ppm																																																												
Silver (Ag) D011	<input type="checkbox"/>	< 5 ppm	_____ ppm																																																												

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Possible Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
- Reportable Quantity (RQ) in pounds \_\_\_\_\_
- DOT Shipping Name RQ 13264 Waste Corrosive Liquid, Acidic Hazard Class 8 UN 3264  
*Worganite, Not Characteristic Acid*
- PG I ERG 124 Hazardous Constituents for "h.o.s." \_\_\_\_\_
- Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume / Units per Year: VARIES or  One Time
- Special Handling Requirements including PPE: \_\_\_\_\_

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory results.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1. GRAB 2. Acid-Resistant Kettle

3. \_\_\_\_\_

4. Sample No. \_\_\_\_\_ Preservation: Yes  No

5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
_____	_____	_____	_____	_____	_____

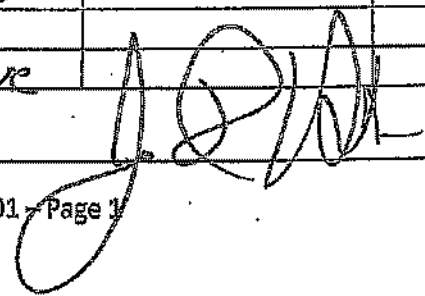
FINGERPRINT FORM

00770

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/8/16
Receiving ID#	ACTA R:550
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	CI:ENT

LAB INFORMATION		CHEMICALS ONLY	
ANALYSIS		ANALYSIS	
Compatible? (RT# )	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.9	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.07	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes <input type="radio"/> No	Sulfate	
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Temperature	61°F		
Conductivity	137.9		
% Solids	25.6		
Turbidity	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Color (visual)	Green		
TSS (%)	25.6		
Radiation Screen (as needed)	Negative		
Lab Signature			

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

28470 Clinton Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

**Generator Waste Profile**

Profile # **00771**

**GENERATOR INFORMATION**

Name: \_\_\_\_\_ USEPA ID # \_\_\_\_\_  
 Facility Address: \_\_\_\_\_ SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: \_\_\_\_\_

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Caustic

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

CANISTER CLEANER TANK

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: D001

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>tan</u>	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.20</u>	acceptable 01/18/16
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pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT ≥ 0.1%)**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>99</u>	<u>60</u>			%
<u>Caustic</u>	<u>1</u>	<u>1</u>			%
<u>Solids</u>	<u>0</u>	<u>0</u>			%
					%
					%



Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup

Lab Analysis  Generator Knowledge  TCLP  TOTAL

	Not Concentration		Not Concentration							
	Present	ppm	Present	ppm						
POB	<input type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	5 ppm	ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm	Barium (Ba)	D006	<input checked="" type="checkbox"/>	100 ppm	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	1 ppm	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	6 ppm	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm				Lead (Pb)	D008	<input checked="" type="checkbox"/>	5 ppm	ppm
Sulfides Total	<input type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	0.2 ppm	ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	1 ppm	ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	5 ppm	ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
- Reportable Quantity (RQ) in pounds \_\_\_\_\_
- DOT Shipping Name RG, UN3266, Waste Corrosive Liquid, basic, inorganic, H.O.S. (sodium hydroxide) Hazard Class 8 UNAS 3266
- PG I ERG 154 Hazardous Constituents for "n.o.s." sodium hydroxide
- Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume / Units per Year: varies or  One Time
- Special Handling Requirements including PPE: \_\_\_\_\_

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- GARRA CAUSTIC TANK  
SAMPLING METHOD COLLECTION POINT
- \_\_\_\_\_
- SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
- Sample No. \_\_\_\_\_ Preservation: Yes  No

5. CHAIN OF CUSTODY: Each person who handles the sample must sign below when the sample passes from one to another.

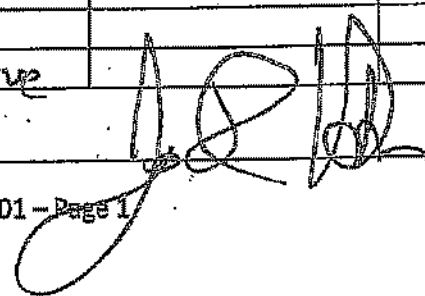
Relinquished by: (Signature)	Date	Time	Received by:	Date	Time
_____	_____	_____	_____	_____	_____

FINGERPRINT FORM

00771  
ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date:	4/8/16
Receiving ID#	Caustic
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION		Oilfield Use Only	
All Waste Streams		Oilfield Use Only	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	13.5	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.20	TDS	
Physical Description	Liquid w/3	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	61°F		
Conductivity	228.3 mS		
% Solids	21.1		
Turbidity	Yes No		
Color (visual)	tan		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

**GENERATOR INFORMATION**

Name: \_\_\_\_\_ USEPA ID# \_\_\_\_\_  
 Facility Address: \_\_\_\_\_ SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

**BILLING INFORMATION**

SAME AS ABOVE  
 Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
Flux  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
FLUX TANK

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: 029L

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Roz</u>	<b>Suspended Solids:</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> >5 %	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> BI-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other <u>1.14</u>	acceptable 01/18/16
---	--	---	---	------------------------

pH:  NA  ≤ 2  2 - 4  4 - 6  6 - 8  8 - 10  10 - 12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73 - 100°F  101 - 140°F  141 - 200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - -0- PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT ≥/≠ 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Hypochlorous Acid</u>	<u>5</u>	<u>0</u>			
<u>Water</u>	<u>99</u>	<u>20</u>			
<u>Flux</u>	<u>1</u>	<u>1</u>			
<u>Solids</u>	<u>1</u>	<u>1</u>			



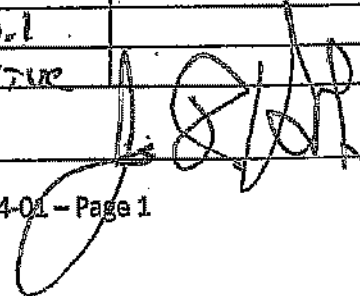
FINGERPRINT FORM

00772

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/8/16
Receiving ID#	Flux
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Clay

LAB INFORMATION		OTHER IONS ONLY	
All Waste Streams			
Compatible? (RT# )	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	4.9	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.14	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	60°F		
Conductivity	381.0 mS		
% Solids	32.3		
Turbidity	(Yes) No		
Color (visual)	Orange		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

**Generator Waste Profile**

Profile # **00773**

**GENERATOR INFORMATION**

Name: \_\_\_\_\_ USEPA ID: \_\_\_\_\_  
 Facility Address: \_\_\_\_\_ SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Title: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**BILLING INFORMATION**  SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name: Waste acid (sulfuric)

Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
Sulfuric acid & water solution used to etch outer surface of steel parts.

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 D007

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> >.5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>Accepted 06/11/16</i>
--	---	---	---	------------------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Sulfuric acid	10	15			
water	80	90			
dirt & scale (7.1 % Fe)	0	5			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

X Lab Analysis

X Generator Knowledge

X TCLP

TOTAL

	Not Present	Concentration		Not Present	Concentration
PCB	X	ppm	Aromatic Amine	X	ppm
Dioxins	X	ppm	Pesticides	X	ppm
Cyanides Reactive	X	ppm	Rodenticides	X	ppm
Cyanides Total	X	ppm	Fungicides	X	ppm
Sulfides Reactive	X	ppm			
Sulfides Total	X	ppm			

Arsenic (As)	D004	X < 5	ppm	ppm
Barium (Ba)	D005	X < 100	ppm	ppm
Cadmium (Cd)	D006	X < 1	ppm	ppm
Chromium (Cr)	D007	<input type="checkbox"/> < 5	ppm	ppm
Lead (Pb)	D008	X < 5	ppm	ppm
Mercury (Hg)	D009	X < 0.2	ppm	ppm
Selenium (Se)	D010	X < 1	ppm	ppm
Silver (Ag)	D011	X < 5	ppm	ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present Xx

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive  Water Reactive  Oxidizer  Shock Sensitive  Reactive (other)  DOT Explosives
- NIOSH Human-Positive Carcinogens  NESHAP Wastes (Benzene, etc.)  Biological X None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? X Yes  No
- Reportable Quantity (RQ) in pounds 10
- DOT Shipping Name Waste Sulfuric acid, spent Hazard Class 8 UN/NA 1832
- PG II ERG 137 Hazardous Constituents for "n.o.s."
- Method of Shipment: X Bulk Tanker  Vac truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: 1 1/2 loads per week 6. Anticipated Volume / Units per Year: 430,392 gallons or  One Time
- Special Handling Requirements Including PPE:

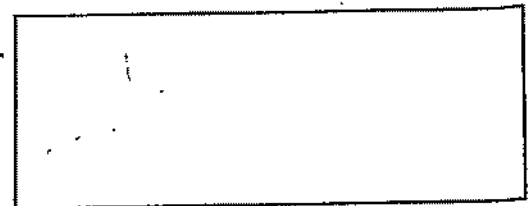
CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- SAMPLING METHOD \_\_\_\_\_ COLLECTION POINT \_\_\_\_\_
- SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER \_\_\_\_\_
- Sample No. \_\_\_\_\_ Preservation: Yes  No



5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

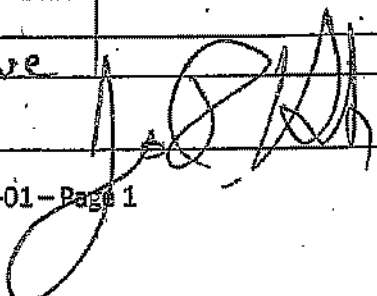
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/11/16
Receiving ID#	Spent H2SO4
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	Client

ANALYSIS INFORMATION		ANALYSIS INFORMATION	
ALL WASTE SAMPLES		SOLID WASTES ONLY	
Compatible? (RT# )	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	<0.1	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.24	ARDS	
Physical Description	Liquid Top / Solid Bot	Resistivity	
Stream Consistency	Yes <input type="radio"/> No <input checked="" type="radio"/>	Sulfate	
Oil in Sample	Yes <input type="radio"/> No <input checked="" type="radio"/>		
Temperature	65°F		
Conductivity	>400.0 mS		
% Solids	53.8		
Turbidity	<input checked="" type="radio"/> Yes <input type="radio"/> No		
Color (Visual)	Green		
TSS (%)	33.3		
Radiation Screen (as needed)	Negative		
Lab Signature			



**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID: [REDACTED]  
 Facility Address: [REDACTED] SIC/NAICS Code: [REDACTED] State Code: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED] Fax: ( ) [REDACTED]

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: [REDACTED]  
 Address: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Attention: [REDACTED] Phone: (248) [REDACTED] Fax: ( ) [REDACTED]

**WASTE INFORMATION**

Name of Waste/Common Chemical Name: Waste Bondrite (Phosphoric acid)

Process Generating Waste (Please be specific, incomplete information may delay the approval process): \_\_\_\_\_

Phosphoric acid solution used to coat parts prior to being sent to presses. The phosphoric acid solution chemically attaches to the steel surface and acts as a lubricant carrier in the phosphating process.

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: D002 D007 D010

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input checked="" type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other _____	<i>Accepted</i>  01/11/16
--	--	---	---	---------------------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)**

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Phosphoric acid	10	15			%
water	70	85			%
dirt & scale/sludge	5	15			%
					%
					%

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup

X Lab Analysis		X Generator Knowledge		X TCLP		TOTAL			
	Not Present	Concentration		Not Present	Concentration				
PCB	X	ppm	Aromatic Amine	X	ppm	Arsenic (As)	D004	X	< 5 ppm
Dioxins	X	ppm	Pesticides	X	ppm	Barium (Ba)	D005	X	< 100 ppm
Cyanides Reactive	X	ppm	Rodenticides	X	ppm	Cadmium (Cd)	D006	X	< 1 ppm
Cyanides Total	X	ppm	Fungicides	X	ppm	Chromium (Cr)	D007		< 5 ppm
Sulfides Reactive	X	ppm				Lead (Pb)	D008	X	< 5 ppm
Sulfides Total	X	ppm				Mercury (Hg)	D009	X	< 0.2 ppm
						Selenium (Se)	D010		< 1 ppm
						Silver (Ag)	D011	X	< 5 ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present Xx

**IS WASTE ANY OF THE FOLLOWING?**

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

**SHIPPING INFORMATION**

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? X Yes  No
- Reportable Quantity (RQ) in pounds 10
- DOT Shipping Name Waste Phosphoric acid solution Hazard Class 8 UN/NA 1805
- PG II ERG 154 Hazardous Constituents for "n.o.s." \_\_\_\_\_
- Method of Shipment: X Bulk Tanker  Vac truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: 1 load every 2 weeks 6. Anticipated Volume / Units per Year: 48,381 gallons  or  One Time
- Special Handling Requirements Including PPE: \_\_\_\_\_

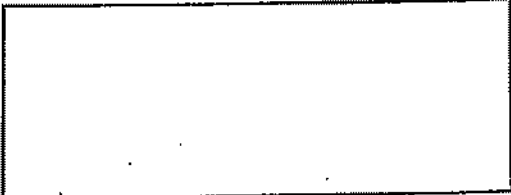
**CERTIFICATION STATEMENT**

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Generator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

**GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:** PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

2.           
 SAMPLING METHOD          COLLECTION POINT
- SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
4. Sample No. \_\_\_\_\_ Preservation: Yes  No



5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/11/10
Receiving ID#	Phosphoric Acid
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time In	
Time out	
Received by	S.H.
Sampled by	Client

LAB INFORMATION		OTHER TESTS DATA	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.4	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.08	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	65°F		
Conductivity	55.2 mS		
% Solids	8.1		
Turbidity	Yes (No)		
Color (visual)	Colorless		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

00776

# Generator's Waste Profile and Service Agreement

In order to properly transport and manage your waste stream, please complete the following:

## SECTION 1: GENERAL INFORMATION

	Generator Information	Customer Information	Billing Information
EPA ID #			
Company	[REDACTED]		
Address 1	[REDACTED]		
Address 2	[REDACTED]		
City, State, Zip Code	[REDACTED]		
Contact	[REDACTED]		
Telephone 1	[REDACTED]		
Telephone 2			
Facsimile			
Email			

## SECTION 2: WASTE INFORMATION

Common Name of Waste: Waste Water

Process Generating Waste: RAINWATER + COOLANT + OIL

Waste Volume Produced Annually: 15,000 GAL

accepted  
@  
01/12/16

Shipping Increments:  One Time  Weekly  Monthly  Quarterly  Yearly  Other \_\_\_\_\_

Check Any Hazardous Characteristics That Apply:  Reactive  Corrosive  Toxic  Flammable  Listed

## SECTION 3: USED/WASTE OIL

Does your waste stream contain 10% or more oil?  Yes  No

Is this oil considered to be a "used oil" as determined by 40CFR 260.10?  Yes  No

*(If yes, then please complete used oil certification sheet.)*

Attach analytical and check the appropriate box below for any parameters for which your oils have been tested.

PCBs  TCLP (Volatiles/Semivolatiles)  Total Halogens  Total Metals

## SECTION 4 PHYSICAL AND CHEMICAL PROPERTIES

Is this waste a nonhazardous liquid industrial waste?	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
What is the Color?	<input checked="" type="checkbox"/> White <input type="checkbox"/> Grey <input type="checkbox"/> Black <input type="checkbox"/> Clear <input type="checkbox"/> ( enter color )
Describe the Odor.	<input type="checkbox"/> Strong <input checked="" type="checkbox"/> Mild <input type="checkbox"/> None
Does it Pass Paint Filter Test	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Physical State at 70° F	<input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Slurry <input type="checkbox"/> Other
Density (weight/volume)	
Specific Gravity	1.05
pH:	2.3
Flash Point (closed cup)	>140
Viscosity at 70° F	<input type="checkbox"/> High <input type="checkbox"/> Medium <input checked="" type="checkbox"/> Low
Percent Composition	$\geq 98$ % Water $\leq 1$ % Oil $\sim 0$ % Rag $\sim 0$ % Solids    VOC = <10 ppm CONC.
Solids Composition:	<input type="checkbox"/> Suspended <input type="checkbox"/> Settable <input type="checkbox"/> Both
Chemical Composition: <i>List all major constituents, include herbicides, pesticides, carcinogens, pathogens and other hazardous constituents.</i>	

Chemical	Minimum	Maximum
Water	98 %	100 %
Coolant	0 %	2 %
Oil	0 %	1 %
	%	%

## SECTION 5 TCLP AND TESTING CERTIFICATION

Please check the "YES" column for constituents that have been TCLP tested and attach analytical results to this profile or check the "NO" column verifying the constituent is not present above hazardous levels. *All constituents must have either a "YES" or "NO" checked.*

Check the method used:  Total  TCLP  EP  Toxicity

METALS mg/L (ppm)			
Metal	Level > than	Yes	No
D01D Copper	100.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D03D Zinc	500.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D004 Arsenic	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D005 Barium	100.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D006 Cadmium	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D007 Chromium	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D008 Lead	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D009 Mercury	0.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D010 Selenium	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D011 Silver	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ORGANICS			
Material	Level > than	Yes	No
D018 Benzene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D019 Carbon Tetrachloride	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D021 Chlorobenzene	100.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D022 Chloroform	5.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D028 1, 2-Dichloroethane	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D029 1, 1-Dichloroethylene	0.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D035 Methyl Ethyl Ketone	200.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D039 Tetrachloroethylene	0.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D040 Trichloroethylene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D043 Vinyl Chloride	0.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>

ACID EXTRACTABLES			
Material	Level > than	Yes	No
D023 o-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D024 m-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D025 p-Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D026 Cresol	200	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D037 Pentachlorophenol	100	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D041 2, 4, 5-Trichlorophenol	400	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D042 2, 4, 6-Trichlorophenol	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

BASE NEUTRAL EXTRACTABLES			
Material	Level > than	Yes	No
D027 1, 4-Dichlorobenzene	7.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D030 2, 4-Dinitrotoluene	0.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D032 Hexachlorobenzene	0.13	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D033 Hexachlorobutadiene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D034 Hexachloroethane	3.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D036 Nitrobenzene	2.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>

HERBICIDES and PESTICIDES			
Material	Level > than	Yes	No
D012 Endrin	0.02	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D013 Lindane	0.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D014 Methoxychlor	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D015 Toxaphene	0.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D016 2, 4-D	10.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D017 2, 4, 5-TP (Silvex)	1.0	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D020 Chlordane	0.03	<input type="checkbox"/>	<input checked="" type="checkbox"/>
D031 Heptachlor	0.008	<input type="checkbox"/>	<input checked="" type="checkbox"/>

### SECTION 6: SHIPPING INFORMATION

Is this waste a D.O.T. Hazardous Material?	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
State Waste Codes:	<input type="checkbox"/> 017L - Crankcase Oil <input type="checkbox"/> 019L - Coolants and Water Soluble Oil <input type="checkbox"/> 021L - Other Oil <input checked="" type="checkbox"/> 029L - Other Wastes
Proper Shipping Name:	Waste Non-DOT, Non-RCRA material
Method of Shipment:	<input checked="" type="checkbox"/> Bulk <input type="checkbox"/> Drum <input type="checkbox"/> Tote
Additional Handling / Comments:	
Waste Receipt Classification:	<input type="checkbox"/> Organic Waste <input checked="" type="checkbox"/> Oily Waste <input type="checkbox"/> Metal Derived Waste

### Section 7: Terms and Conditions of Waste Service

**1. Waste Disposal.** Subject to the terms and conditions contained herein and those in the Proposal and Approval Notification Letter, Advanced Resource Recovery, (hereinafter "Company"), and the Service Provider and/or Generator, (hereinafter collectively "Customer"), agree to be legally bound hereby and the Customer agrees to accept at its facility (the "Facility") industrial Waste (hereinafter referred to as "Industrial Waste" or "Waste") delivered by Customer, and which is accepted herein provided.

**2. The Agreement.** The entire agreement of the parties for the disposal of Industrial Waste (the "Agreement") shall consist of these terms and conditions, and any application, permit, approval or other documents provided by the Company that may be applicable to such Waste. Waste accepted at the Facility by Company will constitute Customer's acceptance of the Proposal and Approval Notification's terms and conditions as well as the terms and conditions herein. Each Waste Approval's terms and conditions will supersede the terms and conditions of any prior Agreement between the parties.

**3. Waste Accepted at Facility.** Customer warrants that the Waste described in the Waste Characterization Profile that is delivered to Company at its Facility hereunder will not contain any quantity of hazardous materials or substances, radioactive materials or substances or toxic wastes or substances as defined by applicable federal, state and/or local laws or regulations. Any waste which does not meet this requirement shall hereinafter be referred to as "Unacceptable Waste." The Customer shall in all matters relating to the collection, transportation and disposal of

the waste hereunder, comply with all applicable federal, state and local laws, regulations, rules and orders regarding the same. The word "Facility" shall mean the Company's disposal facility located [REDACTED]

**4. Industrial Waste.** Customer warrants that the Waste delivered to Company hereunder will not contain any waste that is not specifically described on the Waste Characterization Profile which is incorporated herein and which is subsequently approved by the Company and will meet the material description as set forth in the application and otherwise in all significant respects. The parties may incorporate additional Industrial Waste as part of this Agreement if prior to delivery of such Waste to Company, Customer has provided a Waste Characterization Profile Application for such Waste and Company has approved disposal of such Waste within the limitations and conditions contained in Company's written notice of approval of Industrial Waste disposal. Title to all Waste handled or disposed of by Company shall at all times remain with Customer.

**5. Rights of Refusal/Rejection.** Company has the right to reuse or reject after acceptance any load of wastes delivered to the facility if the Company believes the Customer has breached (or is breaching) its warranties or agreements hereunder. If Customer delivers wastes in breach of any warranty or agreements herein, Company may in its sole discretion, either remove and dispose of that waste and charge Customer for the costs or require Customer to promptly remove the waste.

**6. Charges and Payment.** Customer agrees to pay the Company's rates as written in the Proposal and Approval Notification Letter, which may be modified from time to time upon thirty (30) days written notice to the Customer. Payment shall be made by Customer within thirty (30) days after receipt of invoice from Company. In the event that any amount is overdue, the Company may terminate this Agreement. Customer agrees to pay service charge of 1.5% per month, or the maximum interest rate permitted by law whichever is less.

**7. Term.** This Agreement shall continue in effect until terminated by Company or Customer, with or without cause, upon prior notice by either party and representations and warranties regarding the waste delivered and the indemnities set forth herein shall survive termination of this Agreement.

**8. Indemnity.** Customer agrees to indemnify, save harmless, and defend Company, its Corporate affiliates, employees, officers and directors from and against any and all liabilities, claims, penalties, forfeitures, suits and the costs and expenses incident thereto (including costs of defense, settlement, and reasonable attorney's fees), which it may hereafter incur, become responsible for, or pay out as a result of death or bodily injuries to any person, destruction or damage to any property, contamination of or adverse effects on the environment, or any violation of governmental laws, regulations, or orders caused, in whole or in part by the Customer's breach of any warranty, term or provision of this Agreement, or any act, omission, willful misconduct or negligence of the Customer, its employees, or subcontractors in the performance of this Agreement.

**9. Default.** The occurrence of any of the following events shall also constitute an event of default by the Customer and shall give the Company the right to immediately terminate this Agreement. (a) A petition for reorganization or bankruptcy filed by or against the Customer; (b) Failure by Customer to pay any amount due to Company (c) Any breach by Customer of any of its obligations pursuant to the Agreement. The parties covenant and agree that the Company's removal and acceptance of the Customer's Waste constitutes work on and an improvement to the Customer's real property. Accordingly, Customer grants to Company the right to file any and all documents permitted by law or otherwise on Customer's real property to secure the monies owed to Company by Customer for services performed.

**10. Attorneys' Fee.** In the event of a breach by Customer of the Agreement, the Customer shall pay all attorneys' fee, collection fees and costs of Company incident to any action brought to enforce the Agreement.

**11. Assignment.** Customer may not assign, transfer or otherwise vest in any other company, entity or person, any of its rights or obligations under the Agreement without the prior written consent of Company.

**12. Miscellaneous.** The Agreement shall be governed by and constructed in accordance with the laws of the state of Michigan in which the Facility is located. The price and terms of this proposal are confidential and are not to be disclosed to any other persons or entities. Customer agrees to take all precautions to insure that its officers, employees and agents maintain the confidentiality of this information and do not disclose the price and terms of this proposal. Service Provider is defined as any company working on behalf of a Generator.

**13. Notices.** All notices herein shall be considered as having been given upon being placed in the mail, certified, postage prepaid, addressed to the Company or Customer at the address set forth in the Waste Characterization Profile.

### SECTION 3: GENERATOR CERTIFICATION and WASTE SERVICE AGREEMENT

I certify that I am authorized to sign below and all information is complete, factual (including attached information), is an accurate representation of the known and suspected hazards and of waste generator regulations pertaining to the waste described herein and agree to the terms and conditions of waste services in Section 7.

Printed Name:	Signature:
[REDACTED]	[REDACTED]

[REDACTED]

## Used Oil Certification

[REDACTED] required under federal regulations 40CFR 279.44 and 40CFR 761.50 to keep on file the following information pertaining to used oil waste streams.

Generator Name: [REDACTED]

EPA ID#: [REDACTED]

Contact Person: [REDACTED]

Please mark with an "X" in the appropriate box below, the statement best describing your used oil waste stream:

- The oil in our waste stream is below 1,000 ppm total halogens and therefore is not regulated. This oil also does not exceed regulated levels of individual halogenated constituents including PCB's. *(If this box is marked, please attach the PCB analysis for this waste stream.)*
- The oil in our waste stream exceeds 1,000 ppm halogens and is exempt from hazardous presumption because the process uses petroleum products containing non-hazardous chlorinated substances. *(If this box is marked, please attach either the Material Safety Data Sheet (MSDS) demonstrating chlorinated paraffin content or a F-Series Solvent-Scan demonstrating the oil has not been mixed with chlorinated solvents.)*

The undersigned hereby certifies the marked paragraph above and any attached information is true and accurate, that the used oil stream has not been mixed with PCB's and PCB's do not exist at the generator's facility. The undersigned has executed this Certification with full and complete power and authority to do so, as of the day and year written below.

Generator: [REDACTED]

Date: [REDACTED]

Signature: [REDACTED]

(printed name)



FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/11/16
Receiving ID#	Waste Water
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	[REDACTED]
Time in	
Time out	
Received by	J.H.
Sampled by	Client

LAB INFORMATION		On Site Only	
All Waste Streams		On Site Only	
Compatible? (RT# )	<input checked="" type="radio"/> Yes No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	2.3	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.05	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	<input checked="" type="radio"/> Yes No	Sulfate	
Oil In Sample	Yes <input checked="" type="radio"/> No		
Temperature	68°F		
Conductivity	8.8 mS		
% Solids	4.0		
Turbidity	<input checked="" type="radio"/> Yes No		
Color (visual)	DK Green-Tan		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Neg		
Lab Signature	[Signature]		

**GENERATOR INFORMATION**

Name: \_\_\_\_\_ USEPA ID# \_\_\_\_\_  
 Facility Address: \_\_\_\_\_ SIC/NAICS Code: \_\_\_\_\_ State Code: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

*SPOILT ACID - HCL*

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

*HOT OR WARM WASTE*

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: *DD02 DD03*

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <i>Green</i>	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input checked="" type="checkbox"/> 1.3-1.4 Exact / Other <i>1.35</i>	<i>acceptable</i> <i>02.08.14</i>
---	---	---	---	--------------------------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - *-0-* PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<i>Water</i>	<i>99</i>	<i>20</i>			
<i>hydrochloric acid</i>	<i>10</i>	<i>1</i>			
<i>solids</i>	<i>55</i>				

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge-provide backup

Lab Analysis  Generator Knowledge  TCLP  TOTAL

Table with columns for metal names (PCB, Dioxins, Cyanides, etc.), presence status, and concentration limits. Includes handwritten values and checkmarks.

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive, Water Reactive, Oxidizer, Shock Sensitive, Reactive (other), DOT Explosives, NIOSH Human-Possible Carcinogens, NESHAP Wastes (Benzens, etc.), Biological, None Apply

SHIPPING INFORMATION

- 1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? Yes
2. Reportable Quantity (RQ) in pounds
3. DOT Shipping Name: UN 3264, RQ Waste Corrosive Liquid, Acidic, Peroxy Acids, PG I, Hazard Class 8, UNNA 3264
4. Method of Shipment: Bulk Tanker, Vco truck, Rail Car, Drums, Toies
5. Number of Units to Ship Now: 6. Anticipated Volume / Units per Year: varies or One Time
6. Special Handling Requirements including PPE:

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief.

Printed Name: [Redacted] Title: [Redacted]
Generator's Signature: [Redacted] Date: [Redacted]

GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS: PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container.

1. SAMPLING METHOD 2. COLLECTION POINT

3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. Preservation: Yes No

5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Table with columns for 'Received by:', 'Date', and 'Time' for tracking the chain of custody.

FINGERPRINT FORM

00778

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/18/16
Receiving ID#	Spent HCL
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	Client

LAB INFORMATION		OIL CHEMICALS ONLY	
WASTESHERIFTS			
Compatible? (RT# )	(Yes) No	Barium	
PCEs (ppm)(Oily Waste Only)?	N/A	Calcium	
TDC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.35	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	54°F		
Conductivity	263.1 nS		
% Solids	45.1		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID: [REDACTED]  
 Facility Address: [REDACTED] SIC/NAICS Code: [REDACTED] State Code: [REDACTED]  
 City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]  
 Contact: [REDACTED] Phone: [REDACTED] Fax: ( ) [REDACTED]

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:  
Ammonium Polyphosphate Fertilizer Solution  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):  
OFF SPEC / VIRGIN LIQUID MATERIAL CONTAMINATED WITH CHROMIUM FROM AN OUTSIDE SOURCE.

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: 0007

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>HAZY</u>	<b>Suspended Solids</b> <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> <0.8 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.40</u>	accepted 02.15.16
---	---	---	--	----------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  <73°F  73-100°F  101-140°F  141-200°F  >200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - < 500 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>PHOSPHORIC ACID</u>	<u>15</u>	<u>5</u>	<u>CHROMIUM</u>	<u>0.052</u>	<u>0.05</u>
<u>ANHYDRUS AMMONIA</u>	<u>40</u>	<u>30</u>			
<u>WATER</u>	<u>60</u>	<u>50</u>			
<u>CHROMIUM</u>	<u>11</u>	<u>11</u>			
<u>ARSENIC</u>	<u>56</u>	<u>0.56</u>			

Metals: Indicate if this waste contains any of the following metals. If Generator knowledge provide backup

<input checked="" type="checkbox"/> Lab Analysis	<input type="checkbox"/> Generator Knowledge	<input checked="" type="checkbox"/> TCLP	<input type="checkbox"/> TOTAL		
PCB	Not Present <input checked="" type="checkbox"/>	Aromatic Amine	Not Present <input checked="" type="checkbox"/>	Arsenic (As)	D004 <input checked="" type="checkbox"/> < 5 ppm
Dioxins	Concentration _____ ppm	Pesticides	Concentration _____ ppm	Barium (Ba)	D005 <input checked="" type="checkbox"/> < 100 ppm
Cyanides Reactive	Concentration _____ ppm	Rodenticides	Concentration _____ ppm	Cadmium (Cd)	D006 <input checked="" type="checkbox"/> < 1 ppm
Cyanides Total	Concentration _____ ppm	Fungicides	Concentration _____ ppm	Chromium (Cr)	D007 <input type="checkbox"/> < 5 ppm
Sulfides Reactive	Concentration _____ ppm			Lead (Pb)	D008 <input checked="" type="checkbox"/> < 5 ppm
Sulfides Total	Concentration _____ ppm			Mercury (Hg)	D009 <input checked="" type="checkbox"/> < 0.2 ppm
				Selenium (Se)	D010 <input checked="" type="checkbox"/> < 1 ppm
				Silver (Ag)	D011 <input checked="" type="checkbox"/> < 5 ppm

TCLP Organics D012 - D043, above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

- Radioactive
- Water Reactive
- Oxidizer
- Shock Sensitive
- Reactive (other)
- DOT Explosives
- NIOSH Human-Positive Carcinogens
- NESHAP Wastes (Benzene, etc.)
- Biological
- None Apply

SHIPPING INFORMATION

- Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
- Reportable Quantity (RQ) in pounds \_\_\_\_\_
- DOT Shipping Name HAZARDOUS WASTE LIQUID, N.O.S. (CHEMICAL) Hazard Class 9 UN/NA 3082
- PG III ERG III Hazardous Constituents for "n.o.s." \_\_\_\_\_
- Method of Shipment:  Bulk Tanker  Van/truck  Rail Car  Drums  Totes
- Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume / Units per Year: 200,000 GALLONS or  One Time
- Special Handling Requirements including PPE: \_\_\_\_\_

CERTIFICATION STATEMENT

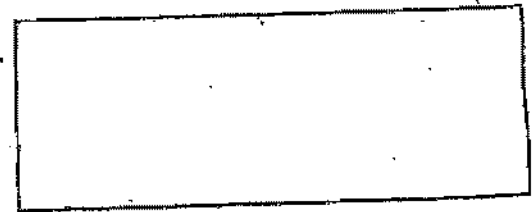
I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: \_\_\_\_\_

Generator's Signature: \_\_\_\_\_

**GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:** PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATORS WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

- SAMPLING METHOD
- COLLECTION POINT
- SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER
- Sample No. \_\_\_\_\_ Preservation: Yes  No



5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1/22/16
Receiving ID#	* L-Ann 9653 of CR
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	C. J. [Signature]

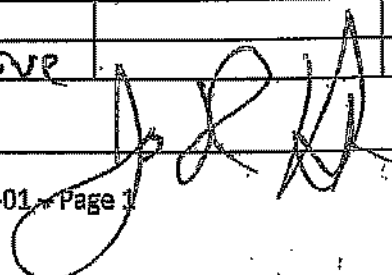
LAB INFORMATION		CLIENT INFORMATION	
Air Waste Streams		Other Parameters	
Compatible? (RT# )	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.6	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.46	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	38.7 mS		
% Solids	67.6		
Turbidity	Yes No		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

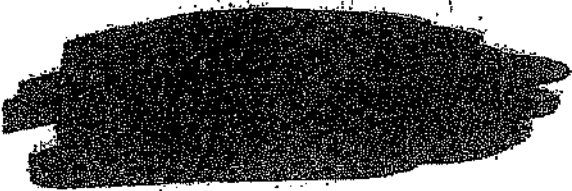
RECEIVING INFORMATION	
Date	1/22/16
Receiving ID#	#2 - Amm. Poly Phosphate w/ Cr
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Chest

LAB INFORMATION		Oil & Grease Only	
All Waste Stream			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	6.7	Sodium Chloride	
Cyanides? (mg/L)	< 3.0	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.43	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	53°F		
Conductivity	36.2 mS		
% Solids	61.1		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	50.1		
Radiation Screen (as needed)	Negative		
Lab Signature			





17-Dec-2016



Re: Blissfield, MI

Work Order: 1512463



ALS Environmental received 2 samples on 08-Dec-2016 09:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 22.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

*Joseph Ribbar*

Electronically approved by: Joseph Ribbar

Joseph Ribbar  
Project Manager



Certificate No: MI: 0022

### Report of Laboratory Analysis

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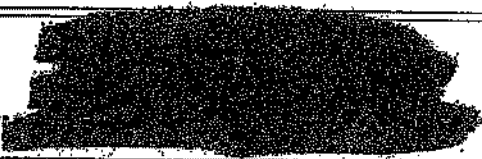


RIGHT SOLUTIONS RIGHT PARTNER

Client:

Project:

Work Order:



Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
1512463-01	Tanks	Liquid		12/7/2015 09:00	12/8/2015 09:15	<input type="checkbox"/>
1512463-02	Tanks	Tcp Extract		12/7/2015 09:00	12/8/2015 09:15	<input type="checkbox"/>

Client:

Work Order: 1512463

Project:

Lab ID: 1512463-01A

Collection Date: 12/7/2015 9:00:00 AM

Client Sample ID: Tanks

Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>FLASHPOINT/IGNITABILITY ANALYSIS</b>			<b>SW1010A</b>			Analyst: LW
Flashpoint/ignitability	>200			°F	1	12/15/2015 11:30 AM
<b>PH (LABORATORY)</b>			<b>SW9040C</b>			Analyst: JB
pH (laboratory)	6.34			s.u.	1	12/10/2015 08:30 AM

Notes: See Qualifiers page for a list of qualifiers and their definitions.

Client:  
Project:

Work Order: 1512463

Lab ID: 1512463-02A  
Client Sample ID: Tanks

Collection Date: 12/7/2015 9:00:00 AM  
Matrix: TCLP EXTRACT

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
<b>TCLP HERBICIDES</b>			<b>SW8151</b>			
					Prep: SW8151M / 12/10/15	Analyst: KYM
2,4,6-TP (Silvex)	ND		0.050	mg/L	10	12/11/2015 03:27 PM
2,4-D	ND		0.050	mg/L	10	12/11/2015 03:27 PM
Sum: DCAA	80.0		30-150	%REC	10	12/11/2015 03:27 PM
<b>TCLP PESTICIDES</b>			<b>SW8081</b>			
						Analyst: BLM
Chlordane, Technical	ND		0.0050	mg/L	1	12/10/2015 08:19 PM
Endrin	ND		0.00010	mg/L	1	12/10/2015 08:19 PM
gamma-BHC (Lindane)	ND		0.00010	mg/L	1	12/10/2015 08:19 PM
Heptachlor	ND		0.00010	mg/L	1	12/10/2015 08:19 PM
Heptachlor epoxide	ND		0.00010	mg/L	1	12/10/2015 08:19 PM
Methoxychlor	ND		0.00010	mg/L	1	12/10/2015 08:19 PM
Toxaphene	ND		0.020	mg/L	1	12/10/2015 08:19 PM
Sum: Decachlorobiphenyl	68.0		42-119	%REC	1	12/10/2015 08:19 PM
Sum: Tetrachloro-m-xylene	54.0		32-104	%REC	1	12/10/2015 08:19 PM
<b>TCLP MERCURY BY CVAA</b>			<b>SW7470A</b>			
					Prep: SW7470 / 12/9/15	Analyst: LR
Mercury	ND		0.010	mg/L	1	12/9/2015 06:57 PM
<b>TCLP METALS ANALYSIS BY ICP-MS</b>			<b>SW6020A</b>			
					Prep: SW3005A / 12/9/15	Analyst: RH
Arsenic	0.052		0.050	mg/L	1	12/11/2015 04:36 PM
Barium	ND		0.050	mg/L	1	12/11/2015 04:36 PM
Cadmium	0.56		0.0020	mg/L	1	12/11/2015 04:36 PM
Chromium	11		0.050	mg/L	1	12/11/2015 04:36 PM
Lead	ND		0.050	mg/L	1	12/11/2015 04:36 PM
Selenium	ND		0.050	mg/L	1	12/11/2015 04:36 PM
Silver	ND		0.050	mg/L	1	12/11/2015 04:36 PM
<b>TCLP SEMI-VOLATILE ORGANICS</b>			<b>SW8270</b>			
					Prep: SW3510 / 12/15/15	Analyst: RS
1,4-Dichlorobenzene	ND		0.10	mg/L	1	12/16/2015 02:28 PM
2,4,5-Trichlorophenol	ND		0.10	mg/L	1	12/16/2015 02:28 PM
2,4,6-Trichlorophenol	ND		0.10	mg/L	1	12/16/2015 02:28 PM
2,4-Dinitrotoluene	ND		0.10	mg/L	1	12/16/2015 02:28 PM
Hexachloro-1,3-butadiene	ND		0.10	mg/L	1	12/16/2015 02:28 PM
Hexachlorobenzene	ND		0.10	mg/L	1	12/16/2015 02:28 PM
Hexachloroethane	ND		0.10	mg/L	1	12/16/2015 02:28 PM
m-Cresol	ND		0.10	mg/L	1	12/16/2015 02:28 PM
Nitrobenzene	ND		0.10	mg/L	1	12/16/2015 02:28 PM
o-Cresol	ND		0.10	mg/L	1	12/16/2015 02:28 PM
p-Cresol	ND		0.10	mg/L	1	12/16/2015 02:28 PM
Pentachlorophenol	ND		0.40	mg/L	1	12/16/2015 02:28 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:

Project:

Work Order: 1512463

TCLP VOLATILE ORGANICS						
		SW6260B		Leachate: SW1311 / 12/9/15		Analyst: BG
Pyridine	ND	0.40	mg/L	1		12/16/2015 02:28 PM
Surr: 2,4,6-Tribromophenol	78.4	38-116	%REC	1		12/16/2015 02:28 PM
Surr: 2-Fluorobiphenyl	58.1	32-100	%REC	1		12/16/2015 02:28 PM
Surr: 2-Fluorophenol	43.3	22-59	%REC	1		12/16/2015 02:28 PM
Surr: 4-Terphenyl-d14	68.3	23-112	%REC	1		12/16/2015 02:28 PM
Surr: Nitrobenzene-d5	68.3	31-93	%REC	1		12/16/2015 02:28 PM
Surr: Phenol-d6	29.9	13-36	%REC	1		12/16/2015 02:28 PM
1,1-Dichloroethene	ND	0.020	mg/L	20		12/10/2015 02:57 PM
1,2-Dichloroethane	ND	0.020	mg/L	20		12/10/2015 02:57 PM
2-Butanone	ND	0.10	mg/L	20		12/10/2015 02:57 PM
Benzene	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Carbon tetrachloride	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Chlorobenzene	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Chloroform	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Tetrachloroethene	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Trichloroethene	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Vinyl chloride	ND	0.020	mg/L	20		12/10/2015 02:57 PM
Surr: 1,2-Dichloroethene-d4	95.2	70-130	%REC	20		12/10/2015 02:57 PM
Surr: 4-Bromofluorobenzene	98.4	70-130	%REC	20		12/10/2015 02:57 PM
Surr: Dibromofluoromethane	93.4	70-130	%REC	20		12/10/2015 02:57 PM
Surr: Toluene-d8	98.0	70-130	%REC	20		12/10/2015 02:57 PM

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client:  
Project:  
WorkOrder:



**QUALIFIERS,  
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and PQL, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNIC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
°F	Degrees Fahrenheit
mg/L	Milligrams per Liter
s.u.	Standard Units

Client:

Work Order:

Project:

QC BATCH REPORT

Batch ID: 80059A Instrument ID: GC12 Method: SW8061

MBLK Sample ID: PBL(WV) 80059-80059A Units: ug/L Analysis Date: 12/10/2015 06:49 PM

Client ID: Run ID: GC12\_151210A SeqNo: 3615682 Prep Date: 12/10/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlordane, Technical	ND	1.0								
Endrin	ND	0.020								
gamma-BHC (Lindane)	ND	0.020								
Heptachlor	ND	0.020								
Heptachlor epoxide	ND	0.020								
Methoxychlor	ND	0.020								
Toxaphene	ND	4.0								
Surr: Decachlorobiphenyl	0.062	0	0.1	0	62	42-119	0			
Surr: Tetrachloro-m-xylene	0.049	0	0.1	0	49	32-104	0			

LCS Sample ID: FLC(WV) 80059-80059A Units: ug/L Analysis Date: 12/10/2015 06:04 PM

Client ID: Run ID: GC12\_151210A SeqNo: 3615683 Prep Date: 12/10/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Endrin	0.061	0.020	0.1	0	61	39-123	0			
gamma-BHC (Lindane)	0.066	0.020	0.1	0	66	32-114	0			
Heptachlor	0.071	0.020	0.1	0	71	34-112	0			
Heptachlor epoxide	0.067	0.020	0.1	0	67	36-109	0			
Methoxychlor	0.061	0.020	0.1	0	61	44-133	0			
Surr: Decachlorobiphenyl	0.069	0	0.1	0	69	42-119	0			
Surr: Tetrachloro-m-xylene	0.064	0	0.1	0	64	32-104	0			

MS Sample ID: 1512483-02A MS Units: ug/L Analysis Date: 12/10/2015 06:34 PM

Client ID: Tanks Run ID: GC12\_151210A SeqNo: 3615685 Prep Date: 12/10/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Endrin	0.415	0.10	0.5	0	83	39-123	0			
gamma-BHC (Lindane)	0.31	0.10	0.5	0	62	32-114	0			
Heptachlor	0.376	0.10	0.5	0	75	34-112	0			
Heptachlor epoxide	0.316	0.10	0.5	0	63	36-109	0			
Methoxychlor	0.455	0.10	0.5	0	87	44-133	0			
Surr: Decachlorobiphenyl	0.32	0	0.5	0	64	42-119	0			
Surr: Tetrachloro-m-xylene	0.3	0	0.5	0	60	32-104	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: 80050A Instrument ID: GC12 Method: SW8081

DUP Sample ID: 1512463-02A DUP Unit: µg/L Analysis Date: 12/10/2015 07:04 PM  
Client ID: RIN ID: GC12 151210A Seq No: 3615687 Prep Date: 12/10/2015 DE: 1A

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlordane, Technical	ND	5.0	0	0	0	0-0	0	0	20	
Endrin	ND	0.10	0	0	0	0-0	0	0	20	
gamma-BHC (Lindane)	ND	0.10	0	0	0	0-0	0	0	20	
Heptachlor	ND	0.10	0	0	0	0-0	0	0	20	
Heptachlor epoxide	ND	0.10	0	0	0	0-0	0	0	20	
Methoxychlor	ND	0.10	0	0	0	0-0	0	0	20	
Toxaphene	ND	20	0	0	0	0-0	0	0	20	
Surr: Decachlorobiphenyl	0.276	0	0.5	0	55	42-110	0.295	7.02	20	
Surr: Tetrachloro-m-xylene	0.24	0	0.5	0	48	32-104	0.205	16.7	20	

The following samples were analyzed in this batch:

1512463-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: 80064 Instrument ID GC7 Method: SW8151

MBLK		Sample ID: HBLKW1-80064-80064		Units: ug/L		Analysis Date: 12/11/2015 09:55 A				
Client ID:		Run ID: GC7-151211A		Seq No: 3617444		Prep Date: 12/10/2015				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	ND	5.0								
2,4-D	ND	5.0								
<i>Surr: DCAA</i>	47.8	0	50	0	95.6	30-150	0			

LCS		Sample ID: HLOSW1-80064-80064		Units: ug/L		Analysis Date: 12/11/2015 10:14 A				
Client ID:		Run ID: GC7-151211A		Seq No: 3617445		Prep Date: 12/10/2015				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	46.2	5.0	50	0	92.4	50-150	0			
2,4-D	51.4	5.0	50	0	103	50-150	0			
<i>Surr: DCAA</i>	52.5	0	50	0	106	30-150	0			

MS		Sample ID: 1512428-01A MS		Units: ug/L		Analysis Date: 12/11/2015 10:32 A				
Client ID:		Run ID: GC7-151211A		Seq No: 3617445		Prep Date: 12/10/2015				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	49.3	5.0	50	0	98.6	50-150	0			
2,4-D	55.8	5.0	50	0	112	50-150	0			
<i>Surr: DCAA</i>	55.9	0	50	0	112	30-150	0			

MSD		Sample ID: 1512428-01A MSD		Units: ug/L		Analysis Date: 12/11/2015 10:50 A				
Client ID:		Run ID: GC7-151211A		Seq No: 3617448		Prep Date: 12/10/2015				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	60.7	5.0	50	0	121	50-150	49.3	20.7	30	
2,4-D	65.7	5.0	50	0	131	50-150	55.8	16.3	30	
<i>Surr: DCAA</i>	63.5	0	50	0	127	30-150	55.9	12.7	30	

The following samples were analyzed in this batch:

1512463-02A

Client:   
 Work Ord:   
 Project:

QC BATCH REPORT

Batch ID: 80012 Instrument ID HG1 Method: SW7470A (Dissolve)

MBLK	Sample ID: MBLK-79930-80012	Units: mg/L	Analysis Date: 12/9/2015 06:04 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613298	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00004	0.00020								J

MBLK	Sample ID: MBLK-80012-80012	Units: mg/L	Analysis Date: 12/9/2015 06:15 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613303	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.000035	0.00020								J

LCS	Sample ID: LCS-79930-80012	Units: mg/L	Analysis Date: 12/9/2015 06:06 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613293	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00202	0.00020	0.002	0	101	80-120	0			

LCS	Sample ID: LCS-80012-80012	Units: mg/L	Analysis Date: 12/9/2015 06:17 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613304	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00201	0.00020	0.002	0	100	80-120	0			

MS	Sample ID: 1512381-04AMS	Units: mg/L	Analysis Date: 12/9/2015 06:35 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613313	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0199	0.0020	0.02	0.00042	97.4	75-125	0			

MSD	Sample ID: 1512381-04MSD	Units: mg/L	Analysis Date: 12/9/2015 06:44 PM							
Client ID:	Run ID: HG1-151209A	Seq No: 3613317	Prep Date: 12/9/2015 DF: 1							
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.0202	0.0020	0.02	0.00042	98.9	75-125	0.0199	1.5	20	

The following samples were analyzed in this batch: 1512463-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Ord:  
Project:

# QC BATCH REPORT

Batch ID: 79999 Instrument ID ICPMS2 Method: SW6020A

MBLK Sample ID: MBLK-79999-79999 Units: mg/L Analysis Date: 12/11/2015 03:24 PM

Client ID: Run ID: ICPMS2\_151211A Seq No: 3617046 Prep Date: 12/9/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.0050								
Barium	ND	0.0050								
Cadmium	ND	0.0020								
Chromium	ND	0.0050								
Lead	ND	0.0050								
Selenium	ND	0.0050								
Silver	ND	0.0050								

LCS Sample ID: LCS-79999-79999 Units: mg/L Analysis Date: 12/11/2015 03:29 PM

Client ID: Run ID: ICPMS2\_151211A Seq No: 3617047 Prep Date: 12/9/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1012	0.0050	0.1	0	101	80-120	0			
Barium	0.09697	0.0050	0.1	0	97	80-120	0			
Cadmium	0.09938	0.0020	0.1	0	99.4	80-120	0			
Chromium	0.1033	0.0050	0.1	0	103	80-120	0			
Lead	0.1092	0.0050	0.1	0	109	80-120	0			
Selenium	0.1008	0.0050	0.1	0	101	80-120	0			
Silver	0.09935	0.0050	0.1	0	99.4	80-120	0			

MS Sample ID: 1512480-03CMS Units: mg/L Analysis Date: 12/11/2015 06:09 PM

Client ID: Run ID: ICPMS2\_151211A Seq No: 3617546 Prep Date: 12/9/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1016	0.0050	0.1	0.00004947	102	75-125	0			
Barium	0.09637	0.0050	0.1	0.0001762	98.2	75-125	0			
Cadmium	0.1017	0.0020	0.1	0.0000134	102	75-125	0			
Chromium	0.102	0.0050	0.1	0.0003282	102	75-125	0			
Lead	0.1018	0.0050	0.1	0.00003865	102	75-125	0			
Selenium	0.1006	0.0050	0.1	-1.858E-05	101	75-125	0			
Silver	0.1019	0.0050	0.1	-7.595E-07	102	75-125	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: 79999 Instrument ID ICPMS2 Method: SW6020A

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	0.1026	0.0050	0.1	0.00004947	103	75-125	0.1016	0.979	20	
Barium	0.1004	0.0050	0.1	0.0001762	100	75-125	0.09837	2.04	20	
Cadmium	0.1014	0.0020	0.1	0.0000134	101	75-125	0.1017	0.295	20	
Chromium	0.1041	0.0050	0.1	0.0003282	104	75-125	0.102	2.04	20	
Lead	0.1055	0.0050	0.1	0.00003265	105	75-125	0.1018	3.57	20	
Selenium	0.09734	0.0050	0.1	-1.858E-05	97.4	75-125	0.1006	3.29	20	
Silver	0.1035	0.0050	0.1	-7.595E-07	104	75-125	0.1019	1.56	20	

The following samples were analyzed in this batch:

1512483-02A

Client:  
 Work Order:  
 Project:

QC BATCH REPORT

Batch ID: 80253 Instrument ID: SVM56 Method: SW8270

MBLK Sample ID: SBLKW1-80253-80253 Unit: ug/L Analysis Date: 12/15/2015 06:01 PM

Client ID: Run ID: SVM56 151215A Seq No: 3620173 Prep Date: 12/15/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	ND	5.0								
2,4,5-Trichlorophenol	ND	5.0								
2,4,6-Trichlorophenol	ND	5.0								
2,4-Dinitrotoluene	ND	5.0								
Hexachloro-1,3-butadiene	ND	5.0								
Hexachlorobenzene	ND	5.0								
Hexachlorocyclohexane	ND	5.0								
m-Cresol	ND	5.0								
Nitrobenzene	ND	5.0								
o-Cresol	ND	5.0								
p-Cresol	ND	5.0								
Pentachlorophenol	ND	20								
Pyridine	ND	20								
Surr: 2,4,6-Tribromophenol	36.66	0	50	0	73.8	38-115	0			
Surr: 2-Fluorobiphenyl	34.97	0	50	0	69.9	32-100	0			
Surr: 2-Fluorophenol	23.45	0	50	0	46.9	22-59	0			
Surr: 4-Terphenyl-d14	43.91	0	50	0	67.8	23-112	0			
Surr: Nitrobenzene-d5	36.91	0	50	0	73.8	31-93	0			
Surr: Phenol-d6	14.23	0	50	0	28.5	13-36	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: 80253 Instrument ID 8VMS6 Method: SW8270

LCS Sample ID: SLC9VW1-80253-80253  
 Client ID: Run ID: 8VMS6\_151215A  
 Seq No: 3628174 Rep Date: 12/15/2015 DF: 1  
 Urea: 0.0 Analysis Date: 12/15/2015 08:21 PM

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	11.28	5.0	20	0	56.4	30-110	0			
2,4,5-Trichlorophenol	15.08	5.0	20	0	75.4	50-110	0			
2,4,6-Trichlorophenol	14.74	5.0	20	0	73.7	50-115	0			
2,4-Dinitrotoluene	20.38	5.0	20	0	102	50-120	0			
Hexachloro-1,3-butadiene	10.26	5.0	20	0	61.8	25-105	0			
Hexachlorobenzene	16.73	5.0	20	0	83.6	50-110	0			
Hexachloroethane	10.17	5.0	20	0	50.8	30-95	0			
m-Cresol	12.85	5.0	20	0	64.2	30-110	0			
Nitrobenzene	14.33	5.0	20	0	71.8	45-110	0			
o-Cresol	13.97	5.0	20	0	69.8	40-110	0			
p-Cresol	12.85	5.0	20	0	64.2	30-110	0			
Pentachlorophenol	14.89	20	20	0	74.4	40-115	0			J
Pyridine	7	20	20	0	35	10-71	0			J
Surr: 2,4,6-Tribromophenol	38.67	0	50	0	77.3	35-115	0			
Surr: 2-Fluorobiphenyl	34.15	0	50	0	68.3	32-100	0			
Surr: 2-Fluorophenol	22.64	0	50	0	45.3	22-59	0			
Surr: 4-Terphenyl-d14	38.13	0	50	0	76.3	23-112	0			
Surr: Nitrobenzene-d5	36.91	0	50	0	73.8	31-93	0			
Surr: Phenol-d6	14.57	0	50	0	29.1	13-36	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:

Work Order:

Project:

# QC BATCH REPORT

Batch ID: 80253

Instrument ID: SVM56

Method: SW8270

MS Sample ID: 1512692-02A MS Units: ug/L Analysis Date: 12/16/2015 06:40 PM

Client ID: Run ID: SVM56-151215A Seq No: 392175 Prep Date: 12/16/2015 DF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	318.2	100	400	0	79.6	30-110	0	0		
2,4,6-Trichlorophenol	348.6	100	400	0	87.2	50-110	0	0		
2,4,6-Trichlorophenol	333.6	100	400	0	83.4	50-115	0	0		
2,4-Dinitrotoluene	409.2	100	400	0	102	50-120	0	0		
Hexachloro-1,3-butadiene	317.4	100	400	0	79.4	25-105	0	0		
Hexachlorobenzene	366.8	100	400	0	91.7	50-110	0	0		
Hexachloroethane	314	100	400	0	78.5	30-95	0	0		
m-Cresol	263.8	100	400	0	63.4	30-110	0	0		
Nitrobenzene	316.2	100	400	0	79	45-110	0	0		
o-Cresol	291.8	100	400	0	73	40-110	0	0		
p-Cresol	253.8	100	400	0	63.4	30-110	0	0		
Pentachlorophenol	367.4	400	400	0	99.4	40-115	0	0		J
Pyridine	198	400	400	0	49.5	10-80	0	0		J
Surr: 2,4,6-Tribromophenol	894.4	0	1000	0	89.4	38-115	0	0		
Surr: 2-Fluorobiphenyl	780.8	0	1000	0	78.1	32-100	0	0		
Surr: 2-Fluorophenol	470	0	1000	0	47	22-59	0	0		
Surr: 4-Terphenyl-d14	933.8	0	1000	0	93.4	23-112	0	0		
Surr: Nitrobenzene-d5	802	0	1000	0	80.2	31-93	0	0		
Surr: Phenol-d6	288.4	0	1000	0	28.8	13-36	0	0		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:

Work Order:

Project:

# QC BATCH REPORT

Batch ID: 80253

Instrument ID: SVM56

Method: SW8270

MSD Sample ID: 1512463-02A MSD Units: ug/L Analysis Date: 12/15/2015 07:00 PM

Client ID: Run ID: SVM56\_151215A Seq No: 3623177 Prep Date: 12/15/2015 Dr: J

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,4-Dichlorobenzene	329	100	400	0	82.2	30-110	318.2	3.34	30	
2,4,5-Trichlorophenol	347.8	100	400	0	87	60-110	348.8	0.23	30	
2,4,6-Trichlorophenol	346.4	100	400	0	86.6	60-115	338.8	3.76	30	
2,4-Dinitrotoluene	376.8	100	400	0	94.2	50-120	409.2	8.24	30	
Hexachloro-1,3-butadiene	329.8	100	400	0	82.4	25-105	317.4	3.83	30	
Hexachlorobenzene	377	100	400	0	94.2	50-110	368.8	2.74	30	
Hexachloroethane	319.6	100	400	0	79.9	30-95	314	1.77	30	
m-Cresol	252	100	400	0	63	30-110	253.8	0.712	30	
Nitrobenzene	332.8	100	400	0	83.2	45-110	316.2	5.08	30	
o-Cresol	290.6	100	400	0	72.6	40-110	291.8	0.412	30	
p-Cresol	262	100	400	0	63	30-110	253.8	0.712	30	
Pentachlorophenol	332.2	400	400	0	83	40-115	357.4	0	30	J
Pyridine	201.8	400	400	0	50.4	10-80	198	0	30	J
Surr: 2,4,6-Tribromophenol	910.2	0	1000	0	91	38-115	894.4	1.75	0	
Surr: 2-Fluorobiphenyl	824.6	0	1000	0	82.5	32-100	780.8	5.48	0	
Surr: 2-Fluorophenol	521.8	0	1000	0	52.2	22-59	470	10.4	0	
Surr: 4-Terphenyl-d14	937	0	1000	0	93.7	23-112	933.8	0.342	0	
Surr: Nitrobenzene-d5	844.6	0	1000	0	84.5	31-93	802	5.17	0	
Surr: Phenol-d6	307.6	0	1000	0	30.8	13-36	288.4	6.44	0	

The following samples were analyzed in this batch:

1512463-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



Client:  
Work Order:  
Project:

QC BATCH REPORT

Batch ID: R177985A Instrument ID VMS6 Method: 8W8260B

MBLK Sample ID: VBLKW2-151210-R177985A Units: ug/L Analysis Date: 12/10/2015 11:54 A

Client ID: Run ID: VMS6-151210A Seq No: 3614367 Prep Date: LDF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	ND	1.0								
1,2-Dichloroethane	ND	1.0								
2-Butanone	ND	5.0								
Benzene	ND	1.0								
Carbon tetrachloride	ND	1.0								
Chlorobenzene	ND	1.0								
Chloroform	ND	1.0								
Tetrachloroethene	ND	1.0								
Trichloroethene	ND	1.0								
Vinyl chloride	ND	1.0								
Surr: 1,2-Dichloroethane-d4	18.96	0	20	0	94.8	75-120	0			
Surr: 4-Bromofluorobenzene	19.15	0	20	0	95.8	80-110	0			
Surr: Dibromofluoromethane	19.28	0	20	0	96.4	85-115	0			
Surr: Toluene-d8	19.13	0	20	0	95.6	85-110	0			

LCS Sample ID: VLCSV1-151210-R177985A Units: ug/L Analysis Date: 12/10/2015 11:02 A

Client ID: Run ID: VMS6-151210A Seq No: 3614366 Prep Date: LDF: 1

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	20.72	1.0	20	0	104	70-145	0			
1,2-Dichloroethane	18.92	1.0	20	0	94.6	78-125	0			
2-Butanone	18.54	5.0	20	0	94.2	55-150	0			
Benzene	20.97	1.0	20	0	105	88-125	0			
Carbon tetrachloride	20.28	1.0	20	0	101	65-140	0			
Chlorobenzene	20.51	1.0	20	0	103	80-120	0			
Chloroform	20.3	1.0	20	0	102	80-130	0			
Tetrachloroethene	20.86	1.0	20	0	104	77-138	0			
Trichloroethene	19.38	1.0	20	0	96.9	84-130	0			
Vinyl chloride	18.88	1.0	20	0	94.4	50-138	0			
Surr: 1,2-Dichloroethene-d4	18.82	0	20	0	94.1	75-120	0			
Surr: 4-Bromofluorobenzene	20.85	0	20	0	103	80-110	0			
Surr: Dibromofluoromethane	19.54	0	20	0	97.7	85-115	0			
Surr: Toluene-d8	19.52	0	20	0	97.6	85-110	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

QC BATCH REPORT

Batch ID: R177965A Instrument ID VMS6 Method: SW8260B

MS		Sample ID: 1512497-49D MS		Units: ug/L		Analysis Date: 12/10/2016 08:00 PM				
Client ID:		Run ID: VMS6-151210A		Seq No: 3615259		Prep Date: DF: 100				
Analyte	Result	FOL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	2088	100	2000	0	104	70-145	0			
1,2-Dichloroethane	1985	100	2000	0	99.2	78-125	0			
2-Butanone	2021	500	2000	0	101	85-150	0			
Benzene	2133	100	2000	0	107	85-125	0			
Carbon tetrachloride	2003	100	2000	0	100	85-140	0			
Chlorobenzene	2099	100	2000	0	105	80-120	0			
Chloroform	1984	100	2000	0	99.2	80-130	0			
Tetrachloroethene	2158	100	2000	0	108	77-138	0			
Trichloroethene	2047	100	2000	0	102	84-130	0			
Vinyl chloride	1808	100	2000	0	90.4	50-136	0			
Surr: 1,2-Dichloroethane-d4	1840	0	2000	0	92	75-120	0			
Surr: 4-Bromofluorobenzene	2008	0	2000	0	100	80-110	0			
Surr: Dibromofluoromethane	1963	0	2000	0	98.2	85-115	0			
Surr: Toluene-d8	1905	0	2000	0	93.2	85-110	0			

MSD		Sample ID: 1512497-49D MSD		Units: ug/L		Analysis Date: 12/10/2016 09:28 PM				
Client ID:		Run ID: VMS6-151210A		Seq No: 3615259		Prep Date: DF: 100				
Analyte	Result	FOL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethane	2143	100	2000	0	107	70-145	2088	2.6	30	
1,2-Dichloroethane	2034	100	2000	0	102	78-125	1985	2.44	30	
2-Butanone	1929	500	2000	0	96.4	85-150	2021	4.86	30	
Benzene	2198	100	2000	0	110	85-125	2133	3	30	
Carbon tetrachloride	2116	100	2000	0	106	85-140	2003	5.49	30	
Chlorobenzene	2138	100	2000	0	107	80-120	2099	1.84	30	
Chloroform	2074	100	2000	0	104	80-130	1984	4.44	30	
Tetrachloroethene	2221	100	2000	0	111	77-138	2158	2.88	30	
Trichloroethene	2100	100	2000	0	105	84-130	2047	2.58	30	
Vinyl chloride	1885	100	2000	0	94.2	50-136	1808	4.17	30	
Surr: 1,2-Dichloroethane-d4	1875	0	2000	0	93.8	75-120	1840	1.88	30	
Surr: 4-Bromofluorobenzene	2104	0	2000	0	105	80-110	2008	4.87	30	
Surr: Dibromofluoromethane	1951	0	2000	0	97.6	85-115	1963	0.813	30	
Surr: Toluene-d8	1942	0	2000	0	97.1	85-110	1905	1.92	30	

The following samples were analyzed in this batch:

1512463-02A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: R177944    Instrument ID WETCHEM    Method: SW9040C

LCS		Sample ID: WLCsw1-151210-R177944			Units: su	Analysis Date: 12/10/2015 08:30 A				
Client ID:	Run ID: WETCHEM 151210A	Seq No: 3612652	Prep Date:	DF: 1						
Analyte	Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	3.97	0	4	0	99.2	90-110	0			

DUP		Sample ID: 1512463-01A DUP			Units: su	Analysis Date: 12/10/2015 08:30 A				
Client ID: Tanks	Run ID: WETCHEM 151210A	Seq No: 3612653	Prep Date:	DF: 1						
Analyte	Result	POL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH (laboratory)	6.34	0	0	0	0		6.34	0	20	

The following samples were analyzed in this batch: 1512463-01A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client:  
Work Order:  
Project:

# QC BATCH REPORT

Batch ID: R178337 Instrument ID WETCHEM Method: SW1010A

Units	Analysis Date									
LCS	Sample ID: LCS-R178337-R178337									
Client ID:	Run ID: WETCHEM 1512150									
Seq No: 3621800	Prep Date:									
DF: 1										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	83	0	81	0	102	97-103	0			

Units	Analysis Date									
DUP	Sample ID: 1512557-01A DUP									
Client ID:	Run ID: WETCHEM 1512150									
Seq No: 3621803	Prep Date:									
DF: 1										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	ND	0	0	0	0	0-0	0	0	10	

Units	Analysis Date									
DUP	Sample ID: 1512625-01A DUP									
Client ID:	Run ID: WETCHEM 1512150									
Seq No: 3621805	Prep Date:									
DF: 1										
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Flashpoint/Ignitability	ND	0	0	0	0	0-0	0	0	10	

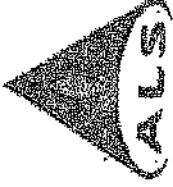
The following samples were analyzed in this batch:

1512463-01A

# Chain of Custody Form

Page 1 of 1

ALS Environmental  
 3362 128th Avenue  
 Holland, Michigan 49424  
 (Tel) 616.399.6070  
 (Fax) 616.399.6185  
 www.alsglobal.com



ALS Program Manager: Joe Kistner ALS Work Order #: 1512163

Project Information: Parameter/Method Request for Analysis

Client Name: [Redacted] Site Name: [Redacted]

Client Address: [Redacted] Site Address: [Redacted]

Client City/State/Zip: [Redacted] Phone: [Redacted]

Client e-Mail Address: colt.jones@cedarhill.com

Sample ID: [Redacted] Date: [Redacted] Time: [Redacted]

Pres. Key: [Redacted] Matrix: Liquid Name: 2 X

Pres. Key Numbers: [Redacted] Res. Key: [Redacted]

Containers: [Redacted]

Requisitioned by: [Redacted] Requisitioned Date: [Redacted] Time: [Redacted]

Requisitioned by: [Redacted] Requisitioned Date: [Redacted] Time: [Redacted]

Logged by (Laboratory): [Redacted] Date: [Redacted] Time: [Redacted]

Preservative Key: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> 6-Mat#SO<sub>4</sub> 7-NaOH/ZnAcetate

Shipment Method:  FedEx  Required Turnaround Time: (Check Box)  
 2 Wk Days  3 Wk Days  5 Wk Days  7 Wk Days

Standard - 100ft Days  Standard - 24 Hour  2 Wk Days  3 Wk Days  5 Wk Days  7 Wk Days

Results Due Date: [Redacted]

COG Packages: (Check Box Below)  
 Level II: Standard COG  Level III: Rear Data  
 TRSP-LBC  TRSP Level IV  
 Level IV: SW846 Methods/CLP file  Other: [Redacted]

Cooler Temp: 43°

ALS Cooler ID: [Redacted]

Note: Any changes must be made in writing once samples and COG Form have been submitted to ALS.

Sample Receipt Checklist

Client Name: [Redacted]

Date/Time Received: [Redacted]

Work Order: [Redacted]

Received by: [Redacted]

Checklist completed: [Redacted] Date: [Redacted]

Reviewed by: [Redacted]

Matrices: Liquid

Carrier name: UPS

Shipping container/cooler in good condition? Yes  No  Not Present

Custody seals intact on shipping container/cooler? Yes  No  Not Present

Custody seals intact on sample bottles? Yes  No  Not Present

Chain of custody present? Yes  No

Chain of custody signed when relinquished and received? Yes  No

Chain of custody agrees with sample labels? Yes  No

Samples in proper container/bottle? Yes  No

Sample containers intact? Yes  No

Sufficient sample volume for indicated test? Yes  No

All samples received within holding time? Yes  No

Container/Temp Blank temperature in compliance? Yes  No

Sample(s) received on ice? Yes  No

Temperature(s)/Thermometer(s): 4.8/4.8 C SR2

Cooler(s)/Kit(s): [Redacted]

Date/Time sample(s) sent to storage: 12/8/2015 11:18:53 AM

Water - VOA vials have zero headspace? Yes  No  No VOA vials submitted

Water - pH acceptable upon receipt? Yes  No  N/A

pH adjusted? Yes  No  N/A

pH adjusted by: [Redacted]

Login Notes:

Client Contacted:

Date Contacted:

Person Contacted:

Contacted By:

Regarding:

Comments:

[Redacted comment box]

Corrective Action:

[Redacted corrective action box]

[Redacted]

To: EGT

Address: \_\_\_\_\_

Attention: \_\_\_\_\_

From: \_\_\_\_\_

Sample: \_\_\_\_\_

Contact: \_\_\_\_\_

Phone #: \_\_\_\_\_

Profile Number	Collection Date	Sample Description (Matrix, Grab/Composite)	# Containers/Type	Size	Analysis Requested
522479	1/29/16	Scab	1	Pt	
523479	1/29/16	Scab	1	Pt	

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Relinquished by: \_\_\_\_\_

Date: \_\_\_\_\_

Date: \_\_\_\_\_

Accepted by: \_\_\_\_\_

Date: \_\_\_\_\_

Lab Use Only

Yes No

Cold Pack \_\_\_\_\_

Headspace \_\_\_\_\_

Intact \_\_\_\_\_

Hazards Associated with Sample

Flammable \_\_\_\_\_

Corrosive \_\_\_\_\_

Highly Toxic \_\_\_\_\_

Other \_\_\_\_\_

Comments

**ENVIRONMENTAL GEO-TECHNOLOGIES, LLC**

28470 Citin Dr, Romulus, MI 48174. Telephone 734 948 1000. Fax 734 948 1002

**Generator Waste Profile**

Profile # **00782**

**GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID: [REDACTED]  
 Facility: [REDACTED] SIC/NAICS Code: [REDACTED] State Code: [REDACTED]  
 City: [REDACTED] State: [REDACTED]  
 Contact: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

**BILLING INFORMATION**

SAME AS ABOVE

Company Name: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_  
 Attention: \_\_\_\_\_ Phone: ( ) \_\_\_\_\_ Fax: ( ) \_\_\_\_\_

**WASTE INFORMATION**

Name of Waste/Common Chemical Name:

Waste Wash Water

Process Generating Waste (Please be specific, incomplete information may delay the approval process):

Waste Water generated from washing tractors & trailers

**USEPA / STATE WASTE IDENTIFICATION**

- This waste is considered to be:  Non Hazardous Liquid Industrial Waste  Hazardous Waste
- Regulated by TSCA?  Yes  No (PCBs, etc.)
- List ALL Applicable Waste Codes: 0291

**PHYSICAL CHARACTERISTICS OF WASTE**

<b>Color:</b> <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	<b>Suspended Solids</b> <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	<b>Layers:</b> <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	<b>Specific Gravity:</b> <input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 Exact / Other <u>1.01</u>	accept 01/22/16
---	--	---	--	--------------------

pH:  NA  ≤ 2  2-4  4-6  6-8  8-10  10-12.5  ≥ 12.5

Liquid Flash Point:  < 73°F  73-100°F  101-140°F  141-200°F  > 200°F  None  Closed Cup  Open Cup

VOC CONCENTRATION - < 10 PPM (MUST BE COMPLETED)

TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT >= 0.1%)

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
<u>Water</u>	<u>100</u>	<u>96</u>			
<u>Total Organics</u>	<u>2</u>	<u>0</u>			
<u>Volatiles Organics</u>	<u>10 p.p.m</u>	<u>0</u>			
<u>Solids</u>	<u>37</u>	<u>0</u>			

See Attached Lab Analyses, too.



Metals: Indicate if this waste contains any of the following metals. If Generator Knowledge provide backup  
 Lab Analysis  Generator Knowledge  TCLP  TOTAL

Not Present		Concentration	Not Present		Concentration				
PCB	<input type="checkbox"/>	_____ ppm	Aromatic Amine	<input type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input type="checkbox"/>	≤ 5 ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input type="checkbox"/>	_____ ppm	Barium (Ba)	D005	<input type="checkbox"/>	≤ 100 ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input type="checkbox"/>	_____ ppm	Cadmium (Cd)	D003	<input type="checkbox"/>	≤ 1 ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input type="checkbox"/>	≤ 5 ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D008	<input type="checkbox"/>	≤ 5 ppm
Sulfides Total	<input type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input type="checkbox"/>	≤ 0.2 ppm
						Selenium (Se)	D010	<input type="checkbox"/>	≤ 1 ppm
						Silver (Ag)	D011	<input type="checkbox"/>	≤ 5 ppm

TCLP Organics D012 - D043 above regulatory limits: Present  Not Present

IS WASTE ANY OF THE FOLLOWING? At Least One Box Must Be Checked.  
 Radioactive  Water Reactive  Oxidizer  Shock Sensitive  Reactive (other)  DOT Explosives  
 NIOSH Human-Positive Carcinogens  NESMAP Wastes (Benzene, etc.)  Biological  None Apply

**SHIPPING INFORMATION**

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)?  Yes  No
2. Reportable Quantity (RQ) in pounds NA
3. DOT Shipping Name NR Waste Water, Non-Hazardous, Non-Regulate Hazard Class NA UN/NA NA  
 PG NA ERG NA Hazardous Constituents for "n.o.s." NONE
4. Method of Shipment:  Bulk Tanker  Vac truck  Rail Car  Drums  Totes
5. Number of Units to Ship Now: \_\_\_\_\_ 6. Anticipated Volume / Units per Year: VARIABLES or  One Time
6. Special Handling Requirements including PPE: NONE

**CERTIFICATION STATEMENT**

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained herein is true, accurate, and complete to the best of my knowledge and belief. Furthermore, no material fact has been omitted as to make this information misleading. I understand that others may rely on this representation and warranty in the handling and processing of the waste material described herein. If this box is checked , I request Environmental Geo-Technologies not to correct any inconsistencies. Any corrections Environmental Geo-Technologies makes will be consistent with the results of the sample characterization and regulatory requirements.

Printed Name: \_\_\_\_\_  
 Generator's Signature: \_\_\_\_\_

**GENERATOR'S CHAIN OF CUSTODY RECORD INSTRUCTIONS:** PLEASE collect a representative 1-quart sample of the waste described in the above referenced GENERATOR'S WASTE PROFILE REPORT using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in 40 CFR 261-Appendix 1. Fill in the sampling information in the spaces provided below. If you have problems obtaining a representative sample of your waste, please contact your Environmental Geo-Technologies representative.

1.          2.           
 SAMPLING METHOD COLLECTION POINT

3.           
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No.          Preservation: Yes  No

5. CHAIN OF CUSTODY Each person who handles the sample must sign below when the sample passes from one to another.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time



290 South Wagner Road  
Ann Arbor, Michigan 48103  
Tel. 734/995-0995 Fax. 734/995-3731  
Michigan Laboratory ID: 9604  
Wisconsin Laboratory ID: 998321720

# Semivolatile Organic Compound Data Summary Sheet

For: Mr. Richard Powals  
Environmental Geo-Technologies, Inc.  
28470 Citrin Drive  
Romulus, MI 48174

ATS Project: Environmental Geo-Technologies, Inc. #E008-0  
Report Date: 2/26/16  
ATS SRF: 0203161

**Sample Identification:** Injection 2 - January

Sample Date:	1/30/16	QC Batch Number:	QCORG0203161-E
Laboratory Receipt Date:	2/3/16		B6B0062
Preparation Date:	2/3/16, 2/16/16	Sample Matrix:	Wastewater
Analysis Date:	2/10/16, 2/19/16	Dilution Factor:	500

<u>Parameter (CAS)</u>	<u>Method</u>	<u>Units</u>	<u>Result</u>	<u>Reporting Limit</u>
Aldrin (309-00-2)	EPA 8270 Mod	mg/mL	<0.00001	0.00001
Benidine (92-87-5)	EPA 8270 Mod	mg/mL	<0.00075	0.00075
N-Nitrosodimethylamine (62-75-9)	EPA 8270 Mod	mg/mL	<0.0001	0.0001
Tetraethyl Lead (78-00-2)	EPA 8270 Mod	mg/mL	<0.00005	0.00005
Hexachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Octachlorodibenzofuran (39001-02-0)	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Octachlorodibenzo-p-dioxin (3268-87-9)	EPA 1613B	mg/mL	<0.00000000005	0.00000000005
Tetrachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000004	0.00000000004

<u>Surrogates / Labeled Standards:</u>	<u>Method</u>	<u>Percent Recovery</u>	<u>Recovery Limits</u>
2-Fluorobiphenyl	EPA 8270 Mod	114.6	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	101.3	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	131.7	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	91.1	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	89.9	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	84.6	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	107.0	(32 - 141)
13C-OCDF	EPA 1613B	61.6	(17 - 157)
13C-OCDD	EPA 1613B	74.3	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	91.7	(25 - 164)

**Comments:**

USEPA Analysis 1613B performed by Vista Analytical.