

May 31, 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 thirtieth 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 thirteenth Injection Fluid Analyses (for April, 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 April.

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

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

Sincerely,



Richard J. Powers, P.E.
Vice-President

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

att.

rjp053116/EGTEPAMonthlyReport-April, 2016

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2016CURRENT REPORTING MONTH AprilDate (month, year) of the first injection into either well at the Citrin Road Facility NOV 2013

CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI-163-1W-C010 , Well #1-12			
Current Month	398,920	0	398,920
Since facility first injected			5,554,108
MI-163-1W-C011, Well #2-12			
Current Month	211,955	0	211,955
Since facility first injected			2,225,190
		Lifetime Combined	7,779,298

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 29

29 lifetime number of months of injection × 43,830 minutes/month
 = 1,271,070 minutes of injection

Lifetime combined injected volume 7,779,298 ÷ 1,271,070 minutes of injection
 = 6.1 gpm average injection rate

WELL 1 DATA

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

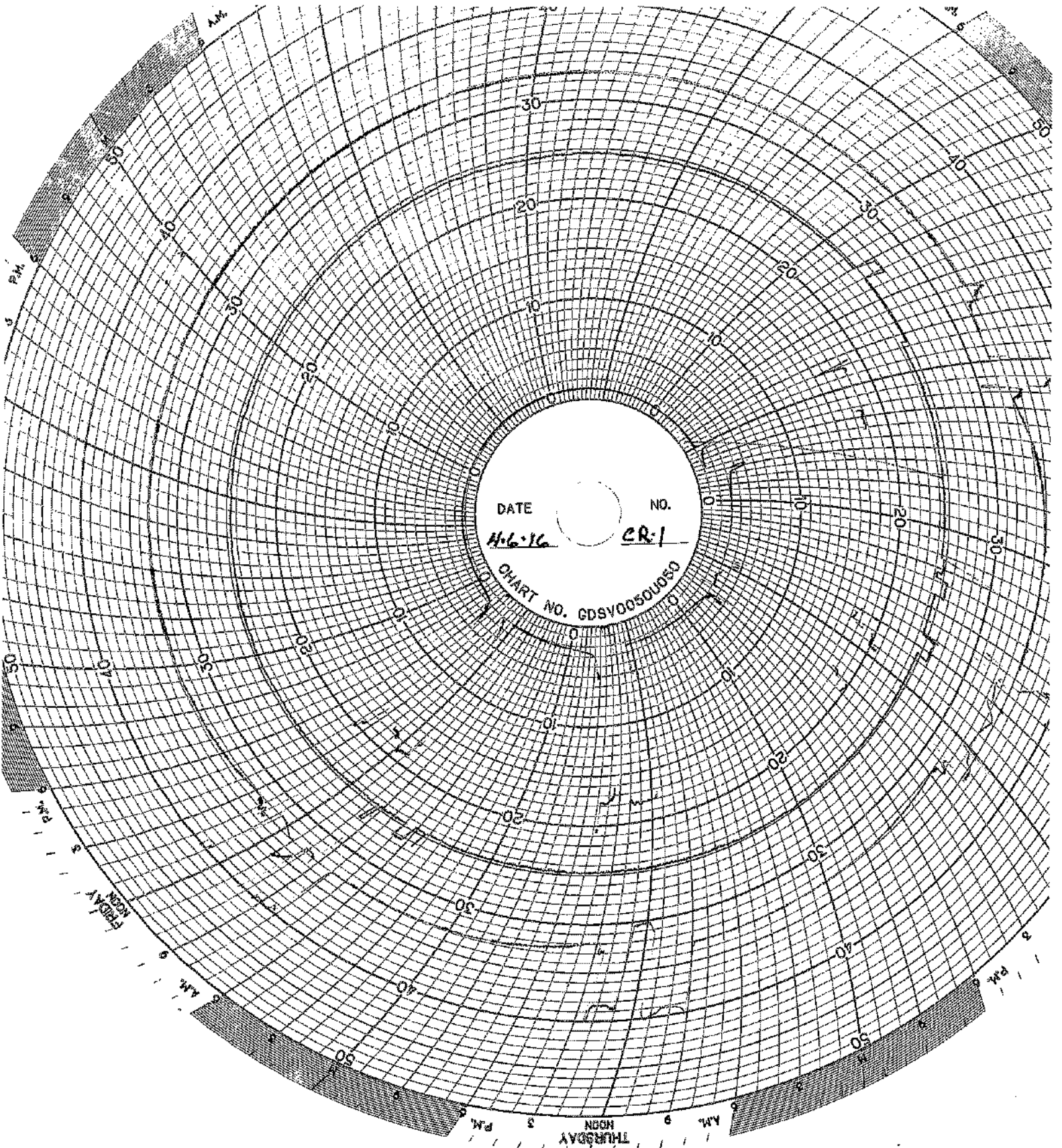
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



DATE

NO.

4-6-16

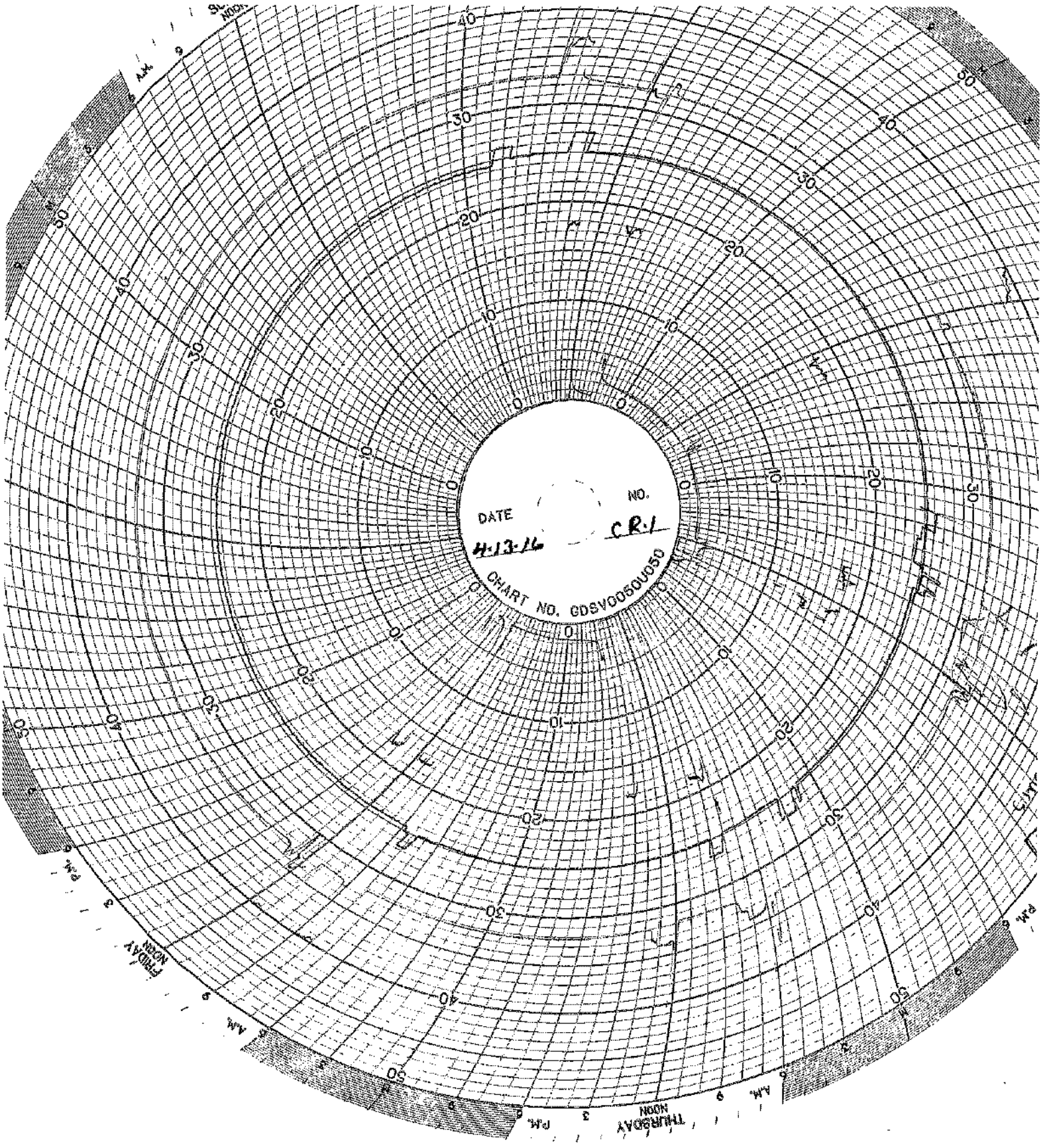
CR-1

CHART NO. GDSV0050450

THURSDAY 3 PM

FRIDAY 3 PM

SATURDAY 3 PM



DATE
4-13-16

NO.
CR-1

CHART NO. GDSV00500050

S. NORTH

FRIDAY
NOON

THURSDAY
NOON

PM

PM

PM

AM

AM

AM

AM

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

30

40

50

40

30

20

10

0

0

0

0

10

20

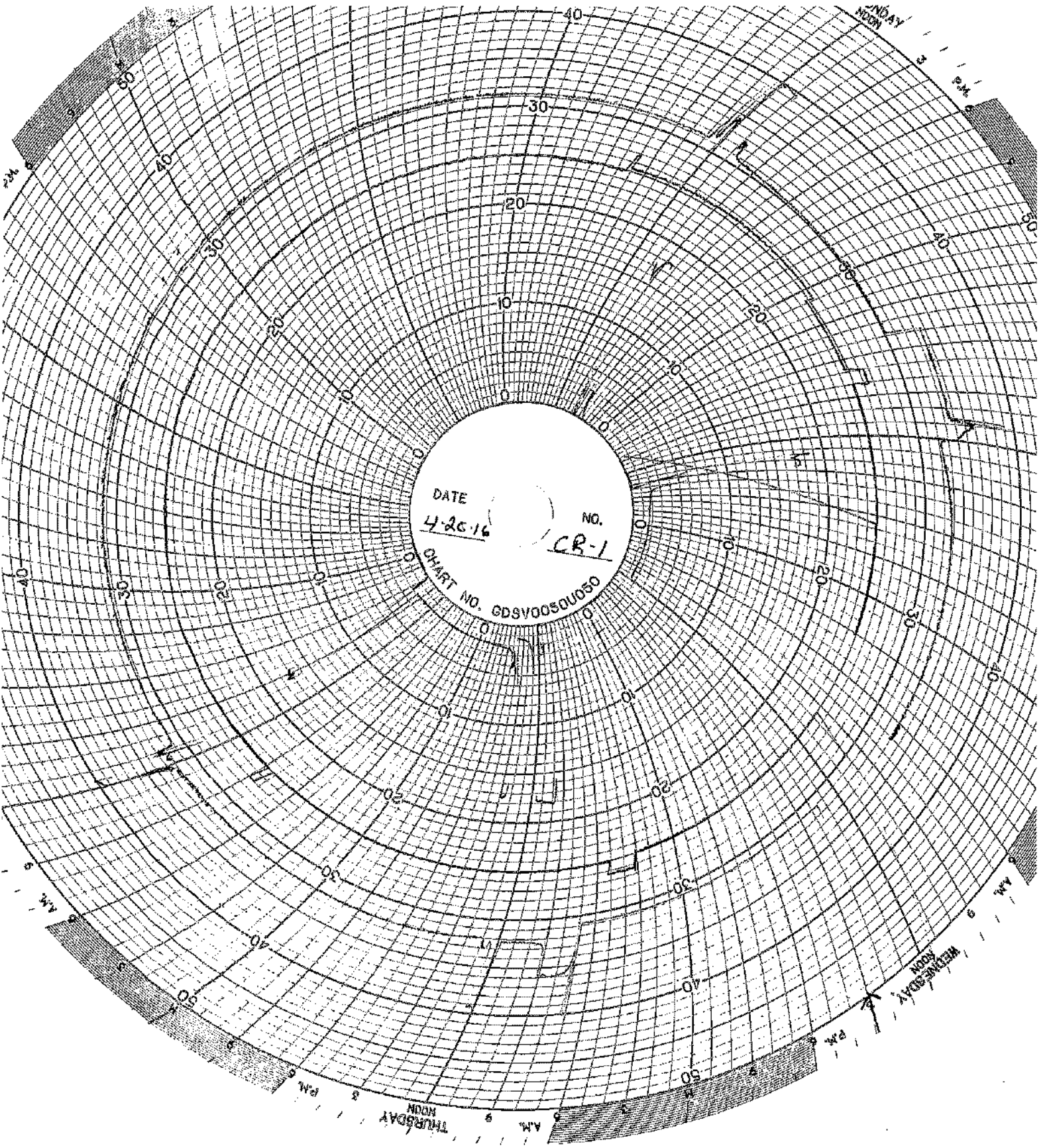
30

40

50

40

30



DATE
4-26-16

NO.
CR-1

CHART NO. GDSV00S0UD50

THURSDAY
NOON

FRIDAY
NOON

MONDAY
NOON

TUESDAY
NOON

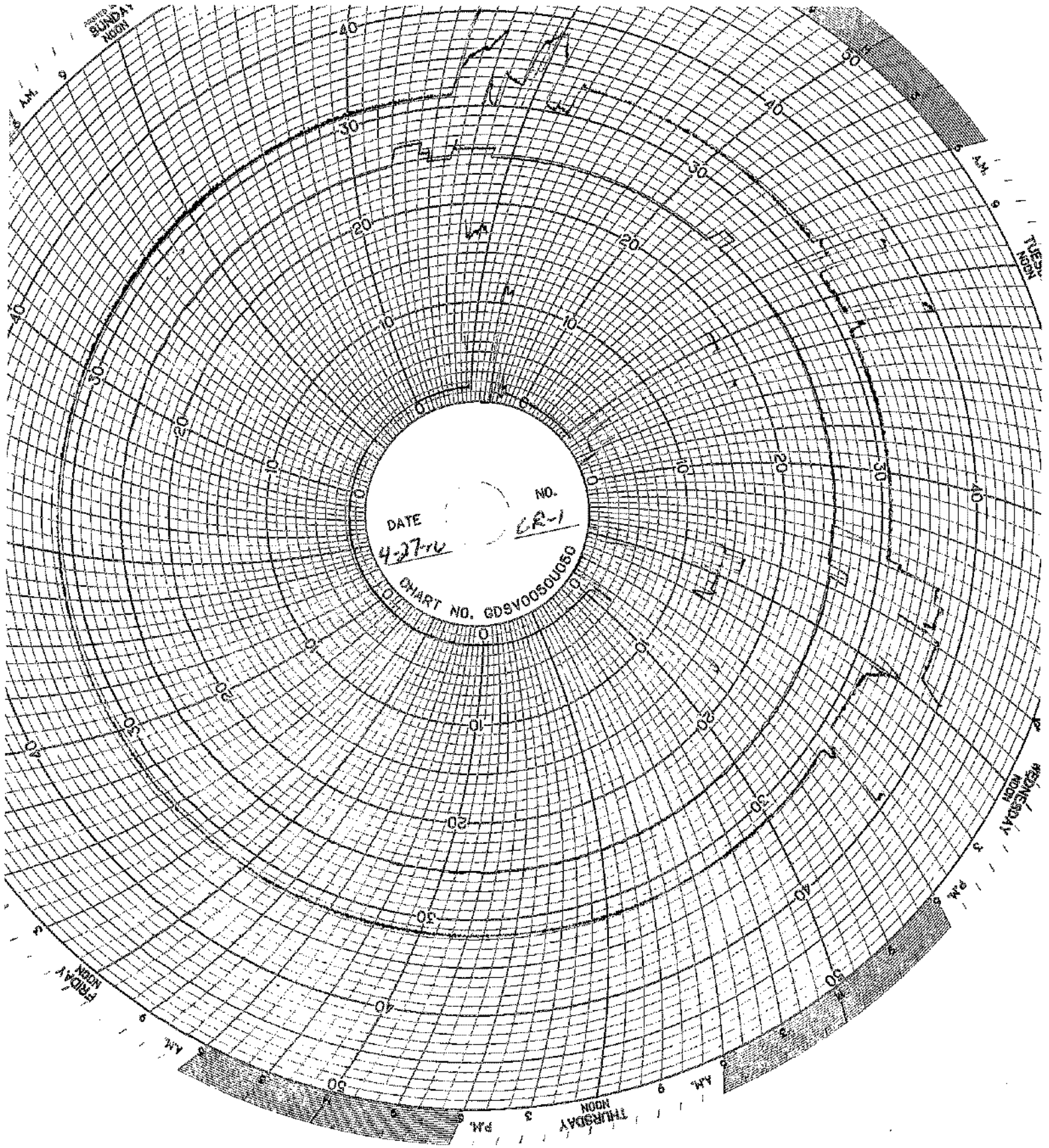
WEDNESDAY
NOON

THURSDAY
NOON

FRIDAY
NOON

SATURDAY
NOON

SUNDAY
NOON



DATE
4-27-10

No.
CR-1

CHART NO. GDSV003DU050

SUNDAY
NOON

9
AM

9
AM

TUESDAY
NOON

WEDNESDAY
NOON

THURSDAY
NOON

FRIDAY
NOON

9
AM

9
AM

3
PM

WELL 2 DATA

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

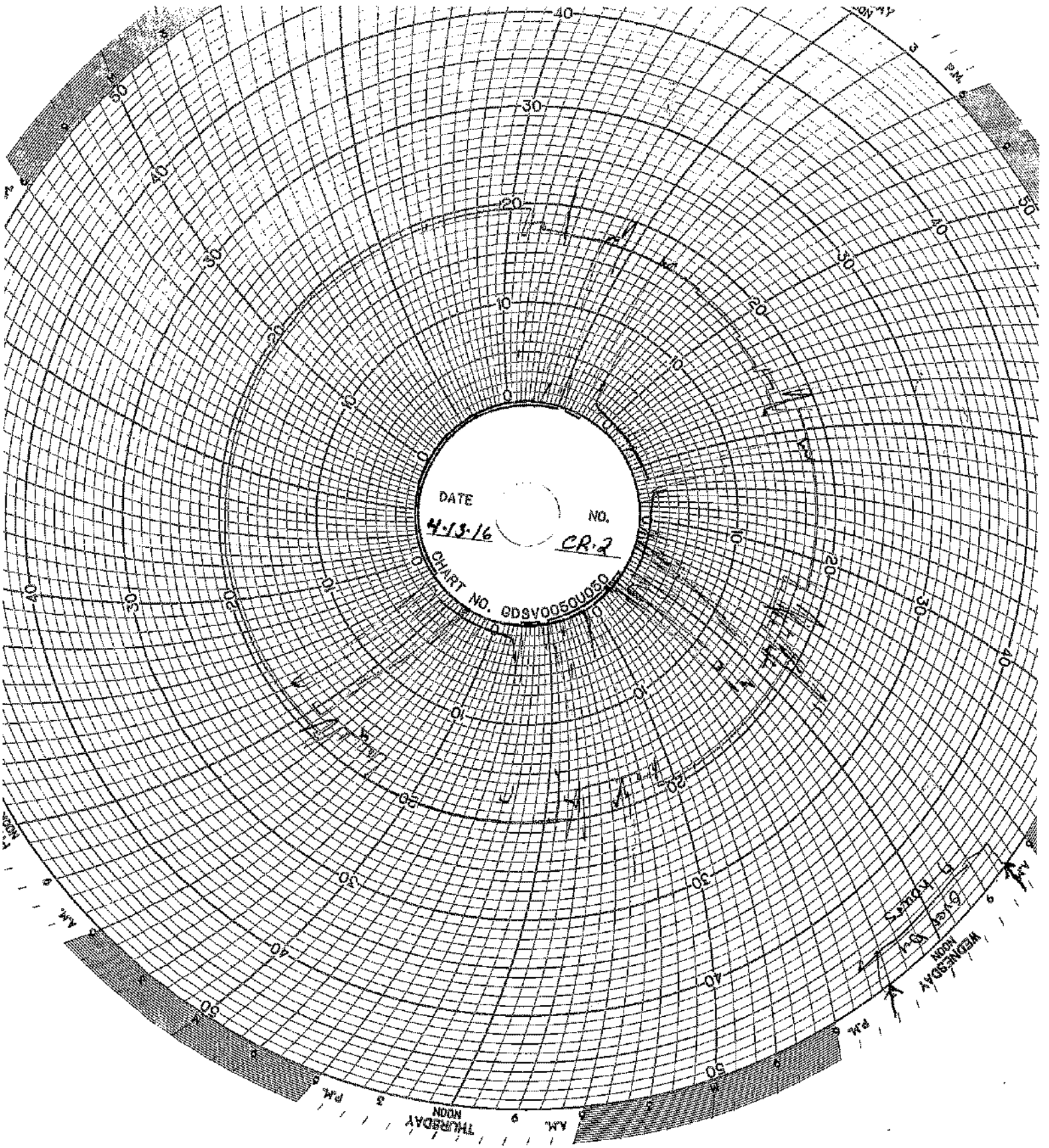
Red Pen – Well 1 Monthly Volume

Channel #3

Green Pen – Well 2 Monthly Volume

Channel #4

Black Pen - Temperature



DATE

4-13-16

NO.

CR-2

CHART NO. EDSV00500030

THURSDAY

NOON

AM

WEDNESDAY

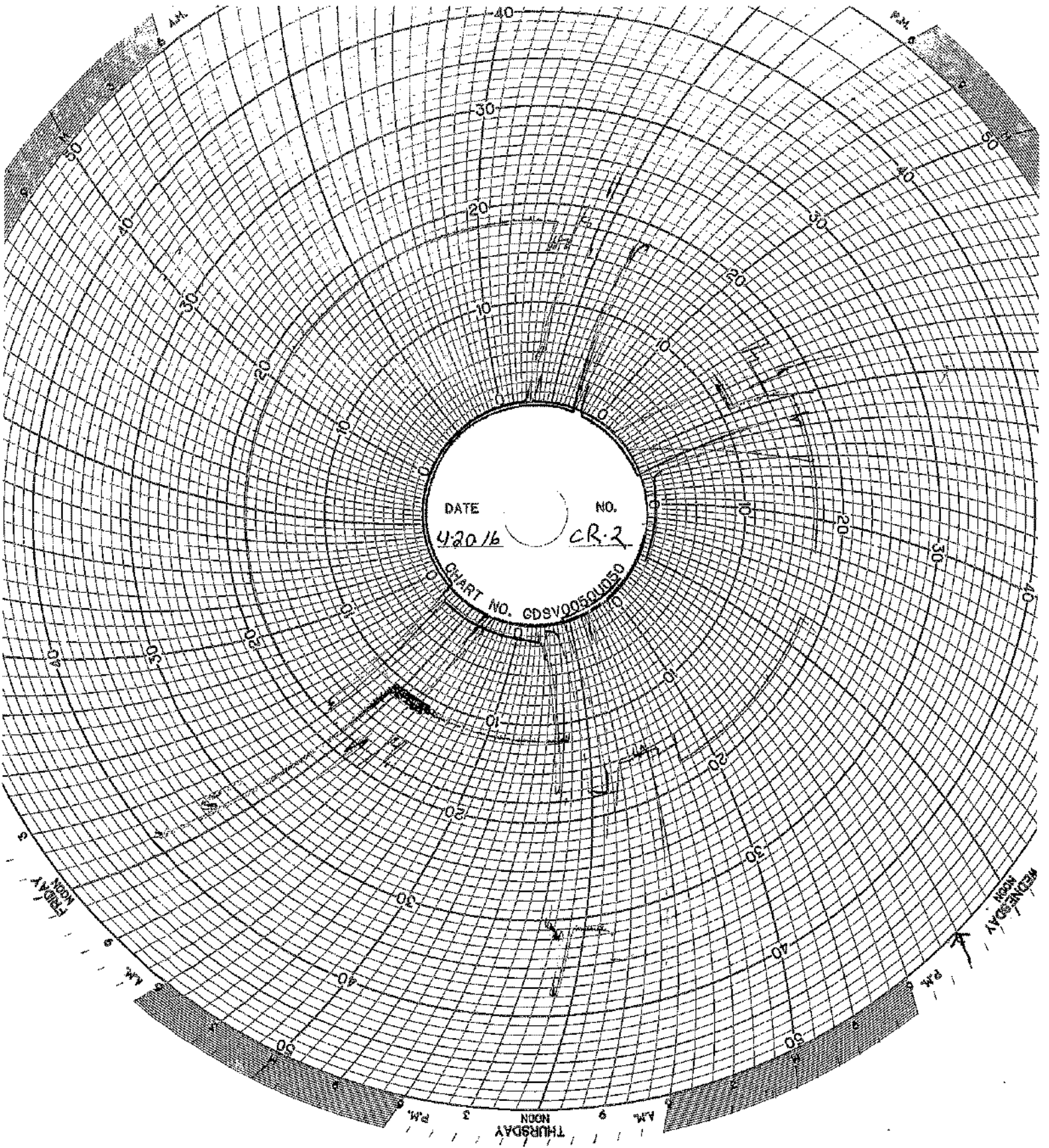
NOON

PM

THURSDAY

NOON

AM



DATE 4/20/16 NO. CR-2

CHART NO. GDSV005010030

THURSDAY

FRIDAY

AM 9
NOON
PM 3

PM 9

30

40

30

20

10

0

10

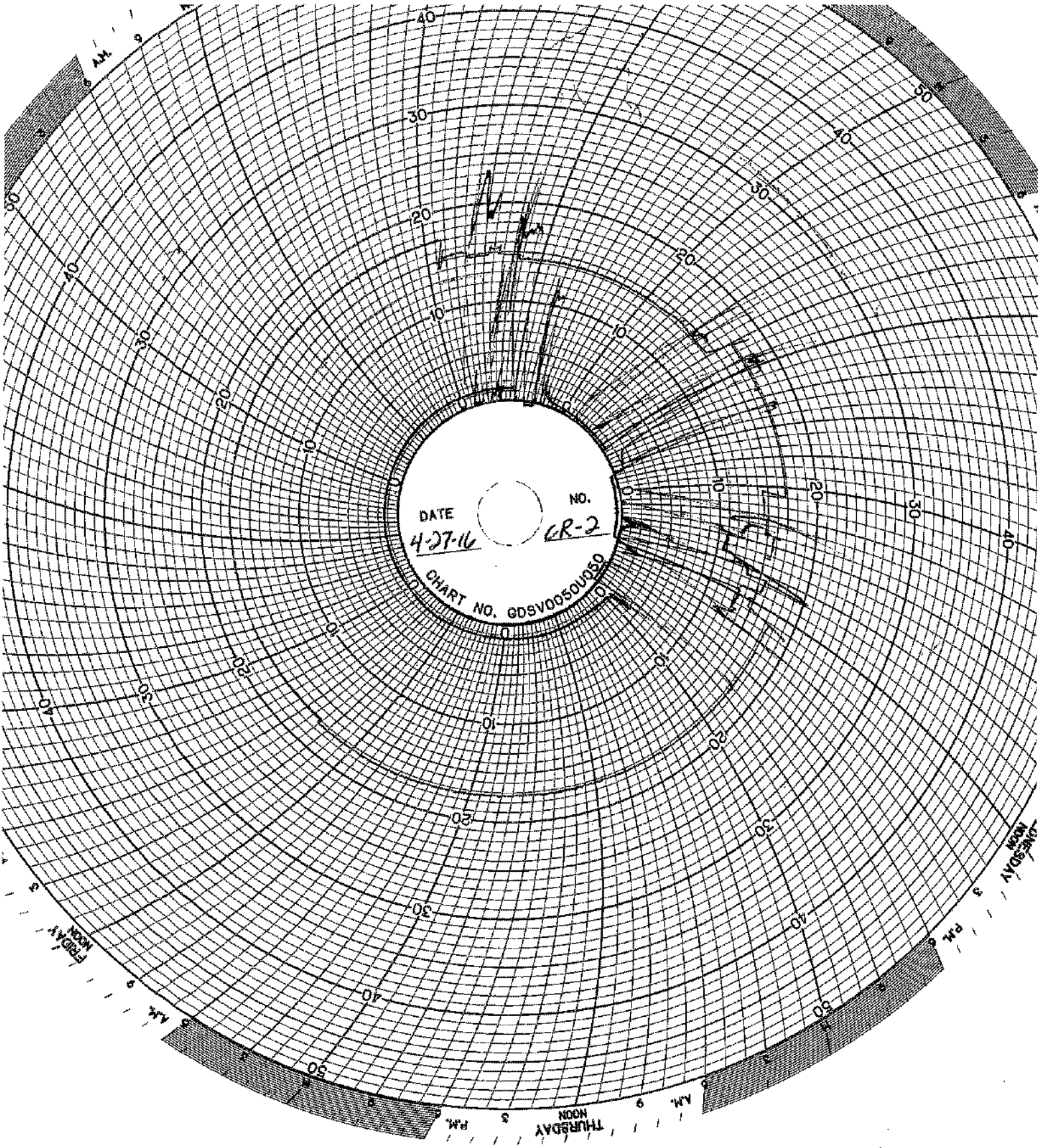
20

30

40

50

AM 9



DATE 4-27-16
NO. CR-2
CHART NO. GDSV0950V050

THURSDAY
NOON
PM

THURSDAY
NOON
PM

FRIDAY
NOON
PM

AM

AM

PM

AM

40

30

20

10

20

10

10

20

30

40

10

20

30

40

10

20

30

40

50

20

30

40

50

10

20

30

40

50

60

70

80

30

40

50

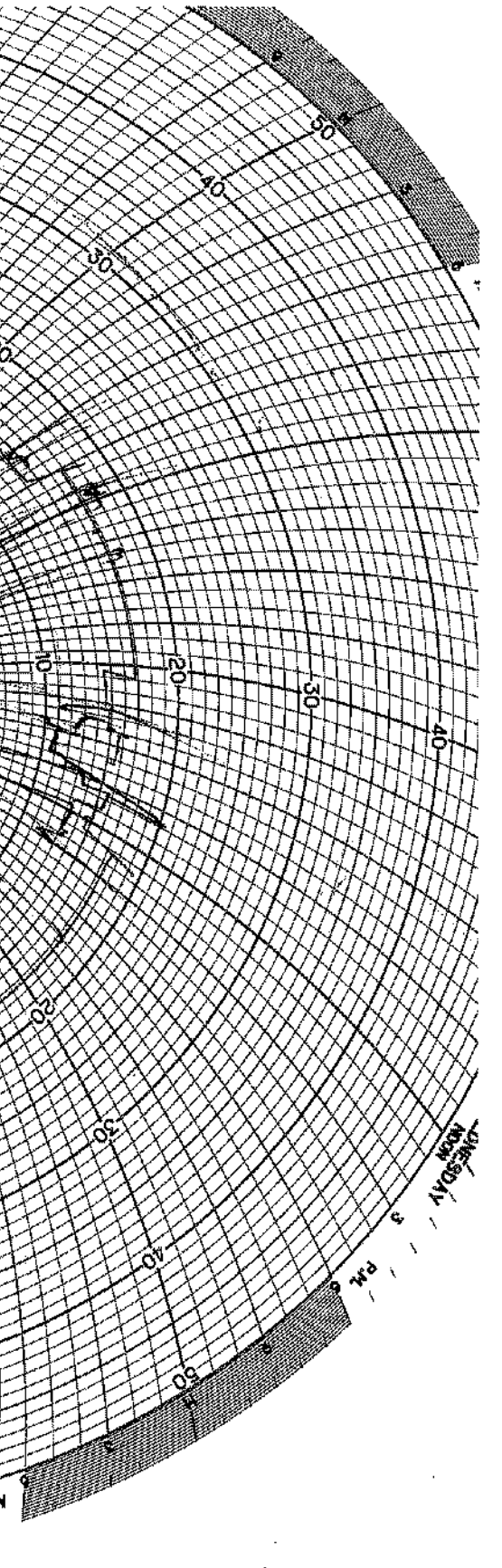
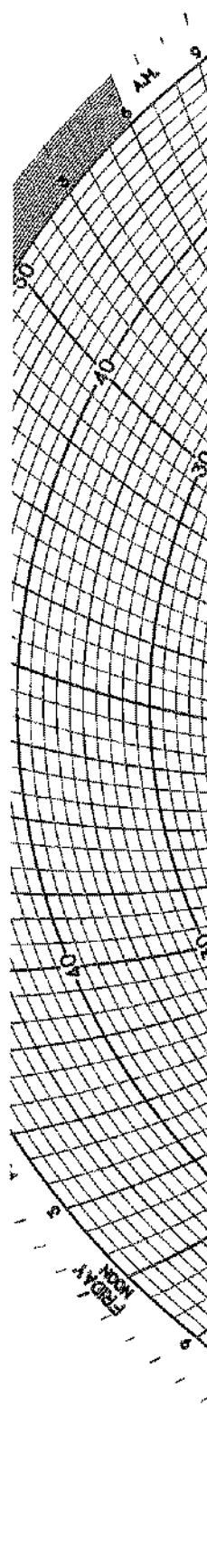
60

70

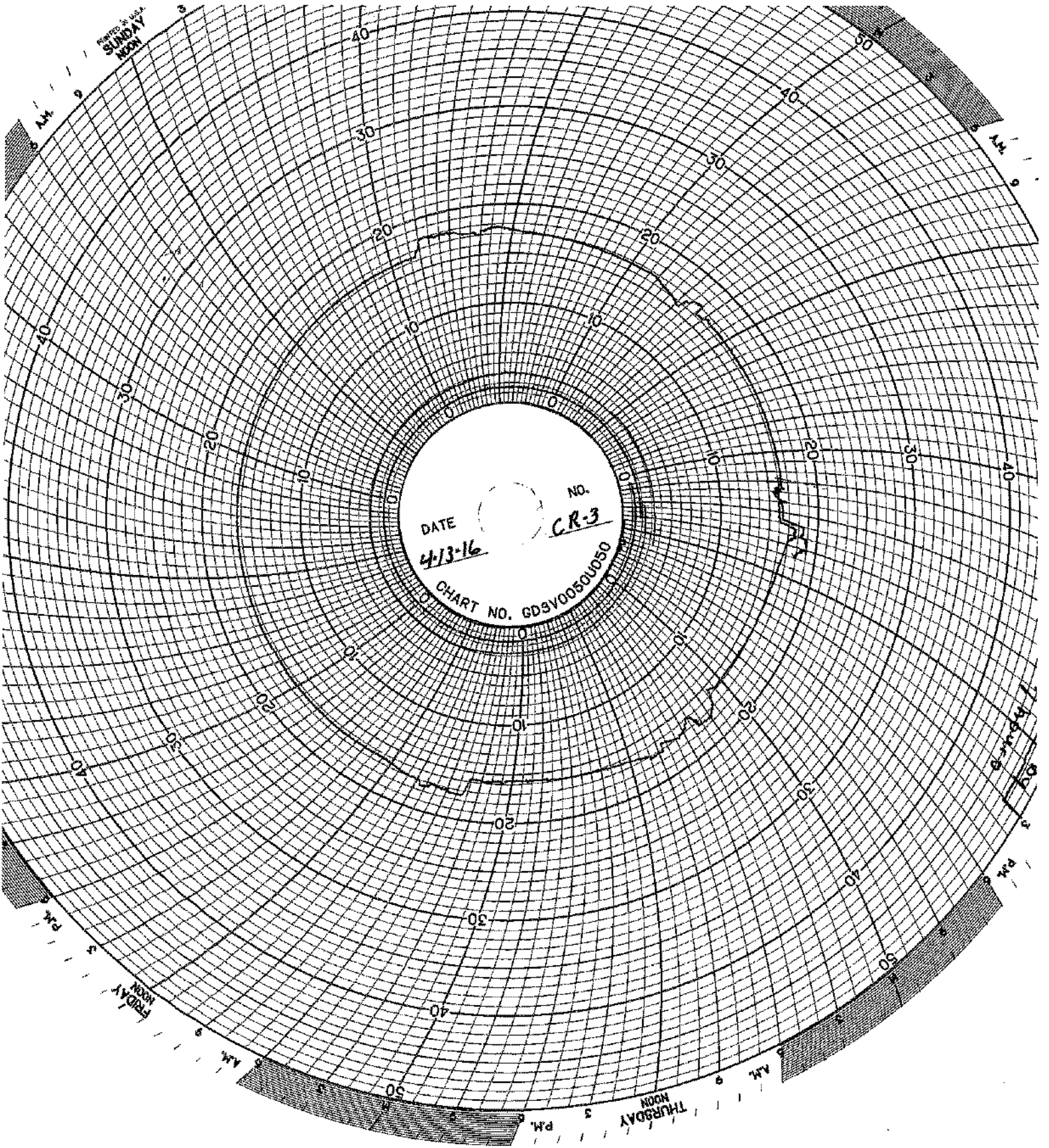
80

90

100



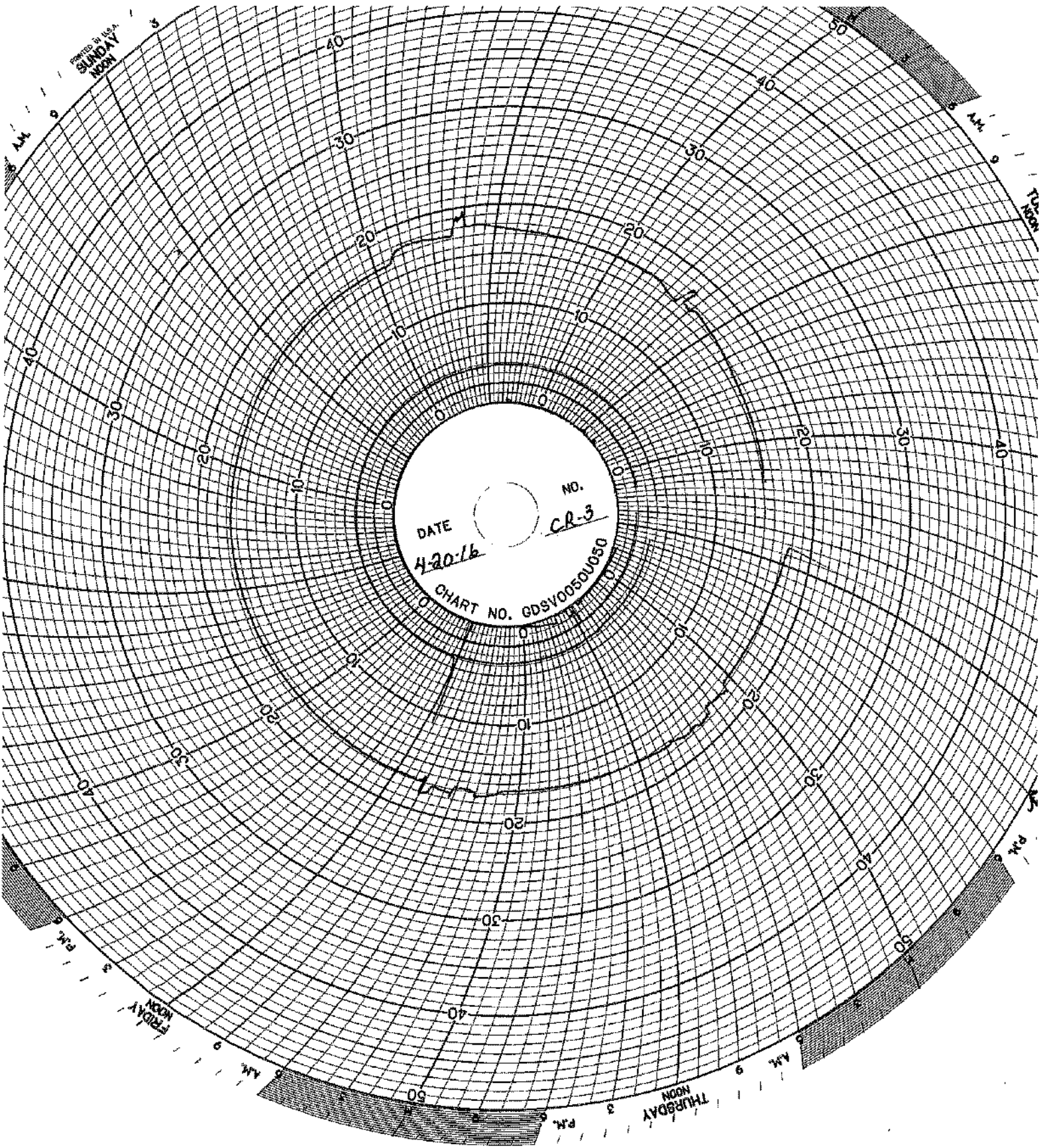
PRINTED IN U.S.A.
SUNDAY
NOON



DATE 4-13-16 No. CR-3
CHART NO. GDSV0050U50

FRIDAY
NOON

THURSDAY
NOON



PRINTED BY U.S.A.
SUNDAY
NOON

THURSDAY
NOON

DATE 4-20-16
NO. CR-3
CHART NO. GDSV0050U050

FRIDAY
NOON

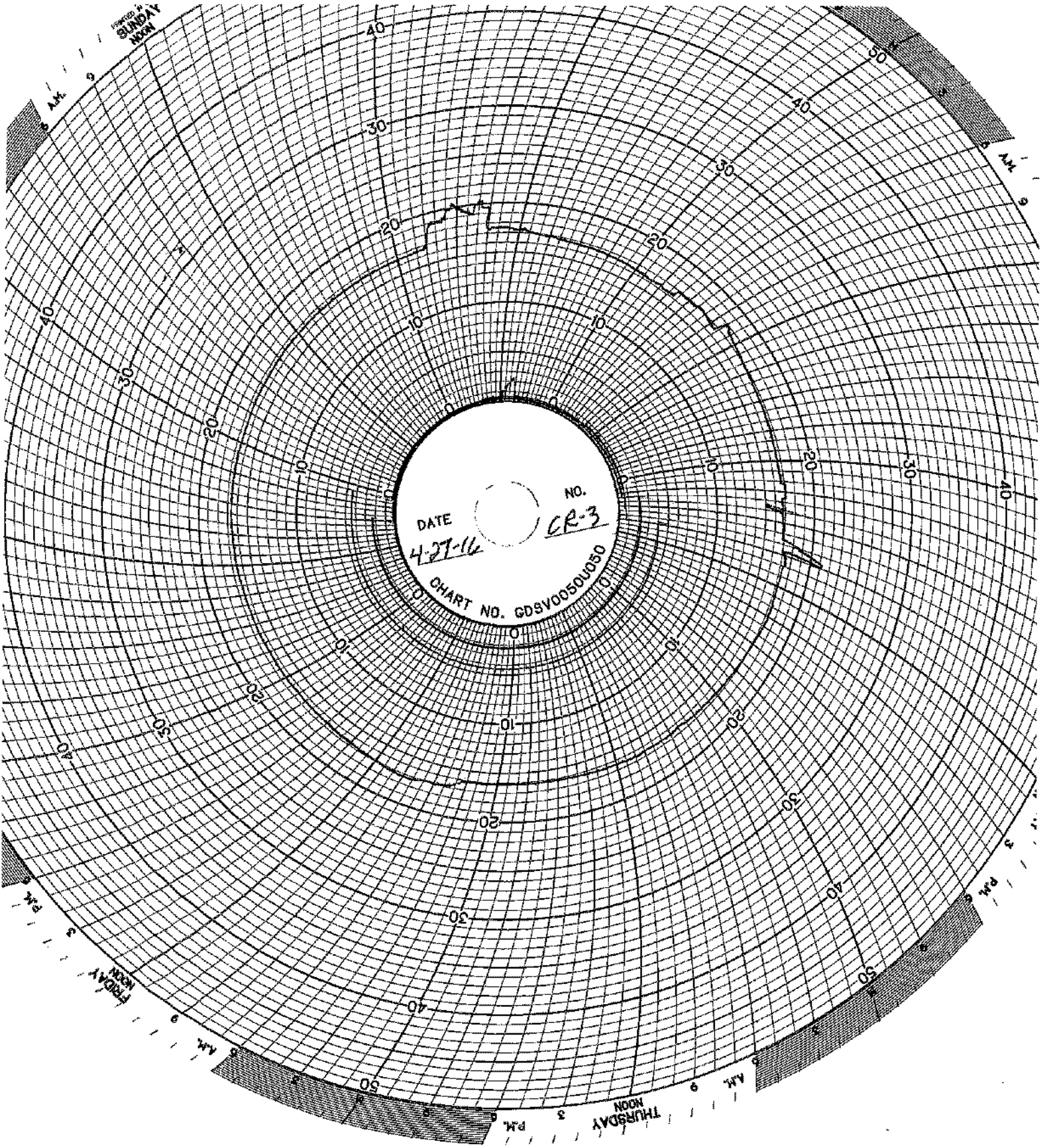
THURSDAY
NOON

WEDNESDAY
SUNDAY
NOON

DATE
4-27-16

NO.
CR-3

CHART NO. GDSV0050U050



MAINTENANCE LOG

UIC Monthly Maintenance Log

4/4/2016	Injection Pump 2	Replaced a damaged two foot section of fiberglass pipe on the suction side of the Roto-Jet pump.
----------	------------------	--

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

April 22, 2016

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. This week the coupon was looked at closely with a magnifying glass. There has been little effect to this coupon.

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. This week the coupon was looked at closely with a magnifying glass. 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	
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

PN 125322
PO 00154

PLASTICS TESTING DEPARTMENT

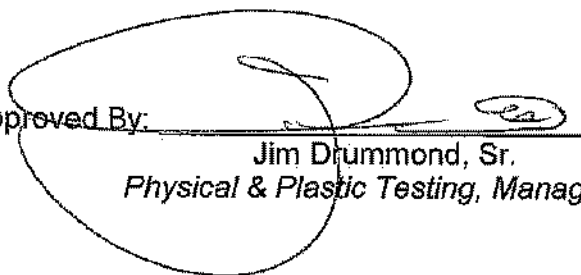
Prepared For:

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

Letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, products or processes tested or evaluated. No warranty of any kind is herein construed or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by A2LA for the test methods listed on the attached scope.

www.ardl.com | 2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com | Toll Free (800) 830-ARDL
Fax (330) 794-6610 | Worldwide (330) 794-6600



AKRON RUBBER DEVELOPMENT LABORATORY, INC.

Progress Through Innovation, Technology and Customer Satisfaction

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

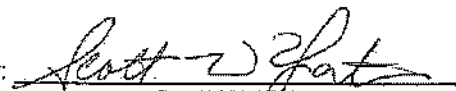
96

Prepared By:


Melissa Martin
Sr. Project Technician

to

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager

GHSQUIERE PLASTIC TESTING, INC.

20450 HARPER AVENUE
HARPER WOODS, MI 48226
PHONE (313) 885-3535
FAX (313) 885-1771

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	90

Specimen is being returned with this report for further evaluation.

GHSQUIERE PLASTIC TESTING, INC.


M. W. Ghesquiere
President

MWG/kni

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

TOTAL 1 PAGES

GHESEQUIERE PLASTIC TESTING, INC.

20460 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.

GHESEQUIERE PLASTIC TESTING, INC.

M. W. Ghesquiere
President

NWG/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:

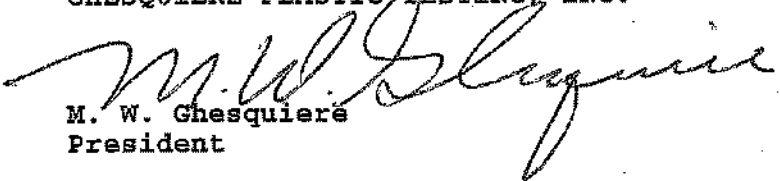
The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

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



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



Letters and reports are for the exclusive use of the clients to whom they are addressed and shall not be reproduced, except in full, without the written permission of Akron Rubber Development Laboratory, Inc. (ARDL). The information contained herein applies to the specific material, products or processes tested or evaluated. No warranty of any kind is herein constituted or implied. The liability of ARDL, Inc. shall be limited to the amount of consideration paid for services. ARDL, Inc. is ISO 17025 accredited by A2LA for the test methods listed on the attached scope.

www.ardl.com

2887 Glchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610



Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

SUBJECT: Barcol Hardness on one material.
PO# Attn: John Frost

RECEIVED: One small section identified as: Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a

Results

Barcol Hardness, Instant

97

Prepared By:



Melissa Martin
Sr. Project Technician

st

Approved By:



Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 830-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6610

**INJECTION
FINGERPRINTS**

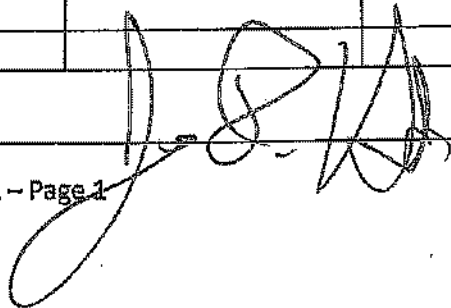
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/1/16
Receiving ID#	304011601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	OB

COPY

LAB INFORMATION		FIELD DATA 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.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	8.59
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	168.2 mS		
% Solids	8.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

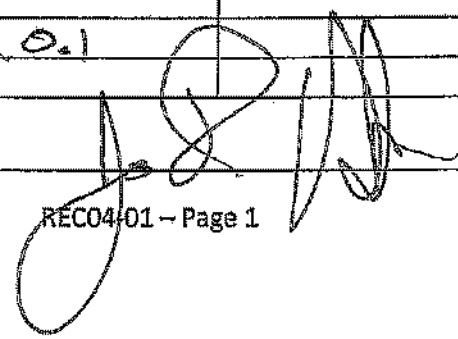
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/4/16
Receiving ID#	EGT011602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.S.

COPY

LAB INFORMATION		ELEMENTS 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.)	0.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	10.4%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	206.5 mS		
% Solids	10.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

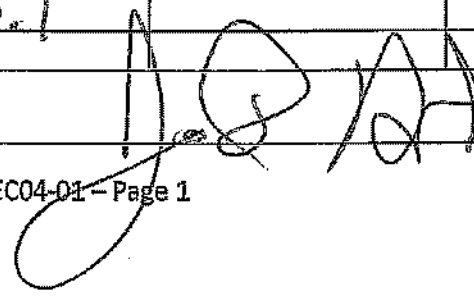
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/4/16
Receiving ID#	104041601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.P.
Sampled by	SP

COPY

LAB INFORMATION - ALWAYS SHIPMENTS		Other Parameters	
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	1.08	TDS	7.2.7.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	64°F		
Conductivity	143.2 mS		
% Solids	7.2		
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	4/4/16
Receiving ID#	ED04041602
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		Direct Drives Only	
ALWAYS SIGN			
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.)	2.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	6.3%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	62°F		
Conductivity	216.0 mS		
% Solids	6.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

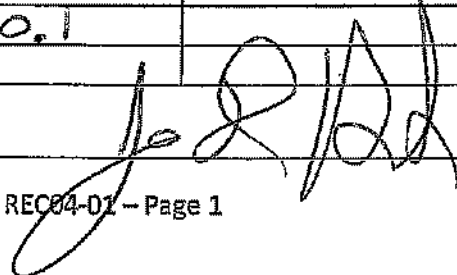
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/5/10
Receiving ID#	IOE051601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	BT

COPY

LAB INFORMATION		Other Pines 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.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.03	TDS	4.0%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	79.0 μS		
% Solids	4.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

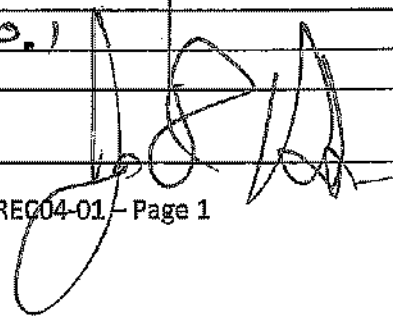
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/3/16
Receiving ID#	104051602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		COMPOSITION	
All Waste Shipments		Oilfield Brine 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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	2.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	58°F		
Conductivity	50.5 mS		
% Solids	2.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

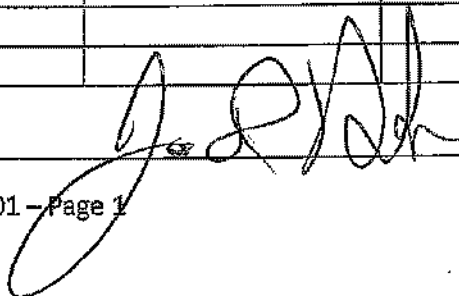
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/5/16
Receiving ID#	E04651603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	D.A.

COPY

LAB INFORMATION		OTHER TESTS 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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	4.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	84.0 mS		
% Solids	4.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

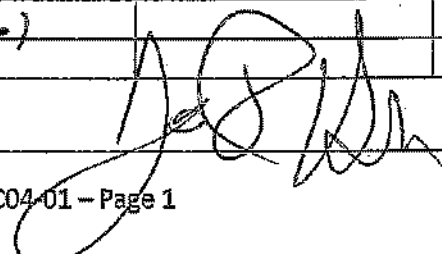
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/6/16
Receiving ID#	ID4061601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	SP

COPY

LAB INFORMATION		Oil and 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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	6.57
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	129.8 mS		
% Solids	6.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

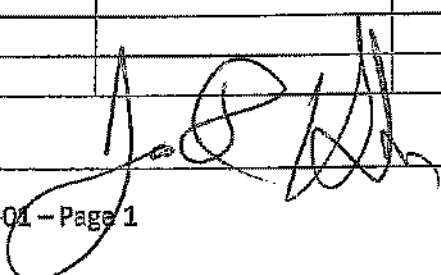
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/6/16
Receiving ID#	104061602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		Oil Field Brines Only	
All Waste Shipments			
Compatible? (RT#)	<u>Yes</u> 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	1.03	TDS	2.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	54°F		
Conductivity	53.3 mS		
% Solids	2.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

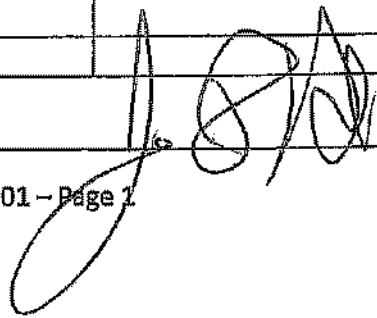
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/6/16
Receiving ID#	T.04060603
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	SP

COPY

LAB INFORMATION		Oilfield Lines Only	
ALWAYS SHIP HERE			
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	1.03	TDS	3.1%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	57°F		
Conductivity	62.2 mS		
% Solids	3.1		
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	4/6/16
Receiving ID#	104061604
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		Comments 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.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	4.0%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	63°F		
Conductivity	78.8 μS		
% Solids	4.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

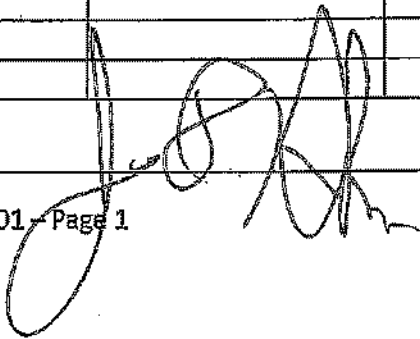
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/7/16
Receiving ID#	104071601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	BD

COPY

LAB INFORMATION		Oilfield Lines Only	
Waste Stream			
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	1.05	TDS	7.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	142.2 mS		
% Solids	7.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

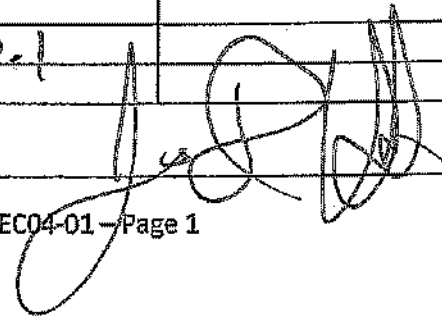
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/7/16
Receiving ID#	T04071602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		Other Binders on	
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.)	1.0	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	6.7%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	134 µmS		
% Solids	6.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

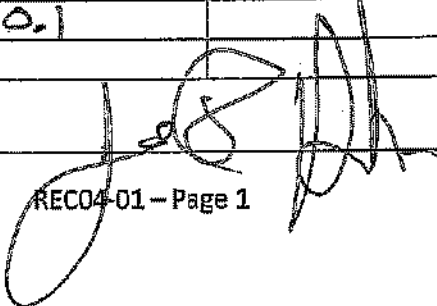
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/7/16
Receiving ID#	1040716 03
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		Other Items 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.)	0.8	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	8.47
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	59.5		
Conductivity	168.1 us		
% Solids	8.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

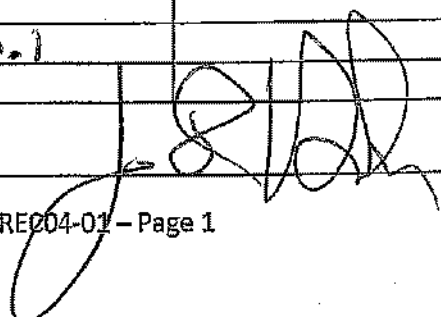
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/8/16
Receiving ID#	E04081601
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	DS

COPY

LAB INFORMATION		OTHER COMMENTS	
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.)	1.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	3.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	63.8 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	4/8/16
Receiving ID#	T.04581602
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 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.)	0.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.1	TDS	9.4%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	606°F		
Conductivity	189.3 mS		
% Solids	9.4		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

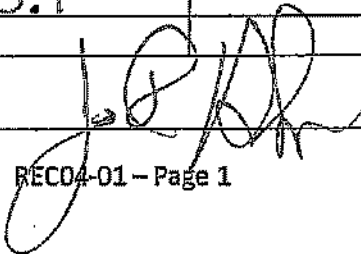
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/8/16
Receiving ID#	I 64681603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	D.H.

COPY

LAB INFORMATION		DISPOSITIONS	
WASTES		RESIDUALS	
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	1.05	TDS	5.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	61°F		
Conductivity	110.9 μS		
% Solids	5.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

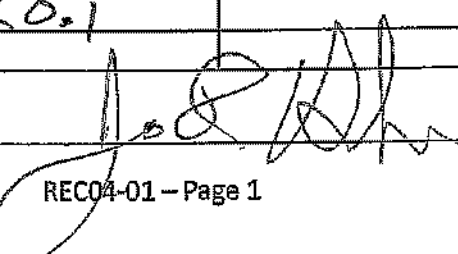
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/12/16
Receiving ID#	E04121601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H
Sampled by	J.P

COPY

LAB INFORMATION		Other Elements	
All Waste Stream is		Other Elements	
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.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.26	TDS	30.97
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	72°F		
Conductivity	> 400.0 mS		
% Solids	30.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

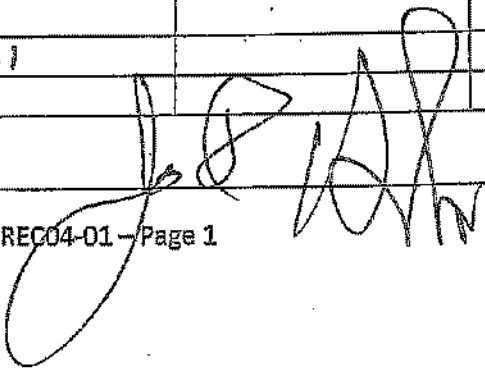
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/12/16
Receiving ID#	E04121602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	G.K.

COPY

LAB INFORMATION		Other Elements Only	
Waste Substances			
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	1.07	TDS	12,67.
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	251.1 mS		
% Solids	12.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

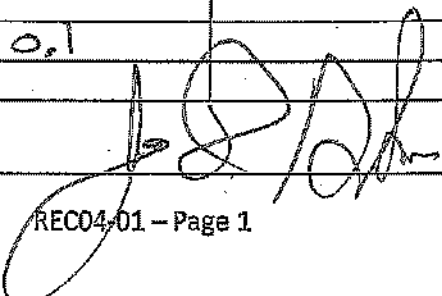
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/13/16
Receiving ID#	I04131601
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		Other Elements	
Waste Stream:		Other Elements:	
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	1.08	TDS	7.37
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	60°F		
Conductivity	145.6 mS		
% Solids	7.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9/13/14
Receiving ID#	104131602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	

COPY

WASTE INFORMATION		OTHER ANALYSIS	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.27	TDS	14.5?
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	59°F		
Conductivity	289.3 mS		
% Solids	14.5		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

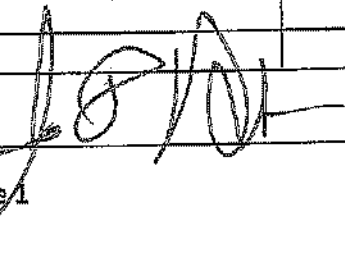
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/13/16
Receiving ID#	104131603
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

ANALYSIS INFORMATION		CHEMICALS 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.)	<0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.27	TDS	14.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	60°F		
Conductivity	290.5 mS		
% Solids	14.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature			

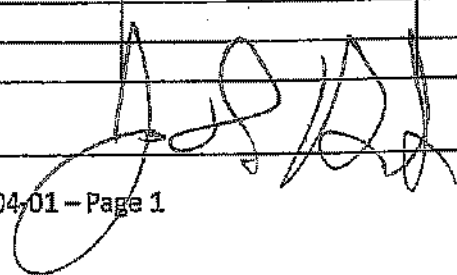
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-14-16
Receiving ID#	104141601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		DISPOSABLES	
Waste Shipments		Oil	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCBs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.16	TDS	8.6%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	63°F		
Conductivity	172.0 mS		
% Solids	8.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

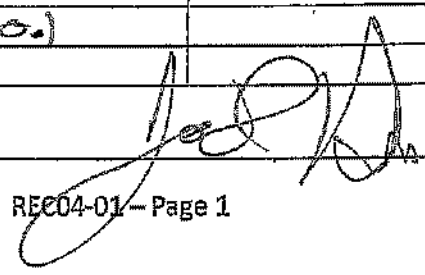
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/14/16
Receiving ID#	104141602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.M.
Sampled by	ML

COPY

LAB INFORMATION		OFFICE USE ONLY	
HAZARDOUS SUBSTANCES			
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4662
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64.05		
Conductivity	961.25		
% Solids	4.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

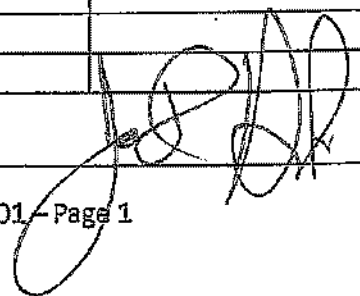
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/14/16
Receiving ID#	104141603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H. 80
Sampled by	

COPY

LAB INFORMATION		OIL & GAS 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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.2%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	82.9 mS		
% Solids	4.2		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

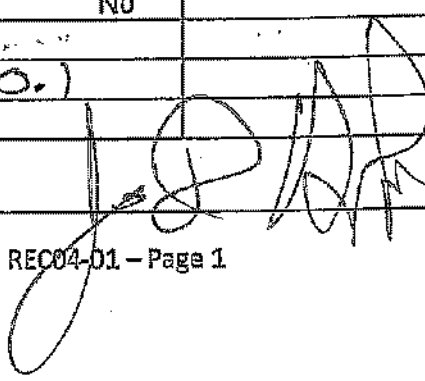
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/15/16
Receiving ID#	ED4151001
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

ANALYSIS INFORMATION		CHEMICALS/TESTS	
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	4.7%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	94.4 mS		
% Solids	4.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

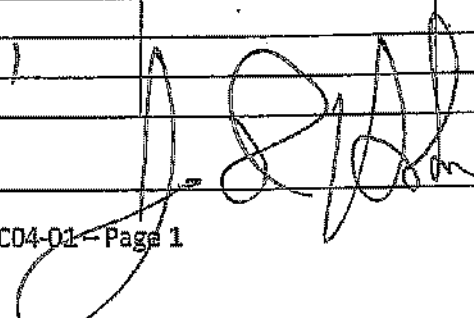
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9/15/16
Receiving ID#	104151602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.H.
Sampled by	G.K.

COPY

ENGINEER/ANALYST		OIL & GAS ONLY	
Waste Stream		Oil & Gas ONLY	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCEs (ppm)(Only Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	2.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	49.6 mS		
% Solids	2.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

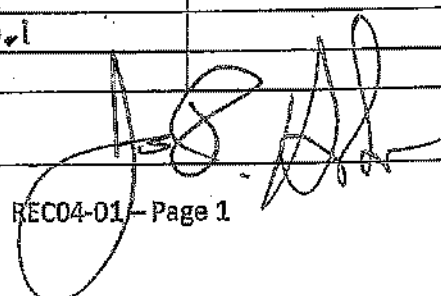
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/18/16
Receiving ID#	104181601
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		CHEMICALS ONLY	
All Waste Shipments			
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CG Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	12.5?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	249.9 mS		
% Solids	12.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

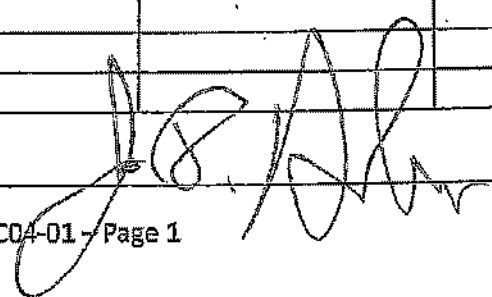
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/18/16
Receiving ID#	704181602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB INFORMATION		ANALYSIS RESULTS		DIRECTIVES 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.)	0.4	Sodium Chloride			
Cyanides? (mg/L)		Bicarbonate			
Sulfides? (ppm)		Carbonate			
Specific Gravity	1.14	TDS			2147
Physical Description		Resistivity			
Stream Consistency	Yes No	Sulfate			
Oil in Sample	Yes No				
Temperature	66°F				
Conductivity	> 400.0 μS				
% Solids	21.4				
Turbidity	Yes No				
Color (visual)					
TSS (%)	0.1				
Radiation Screen (as needed)					
Lab Signature					

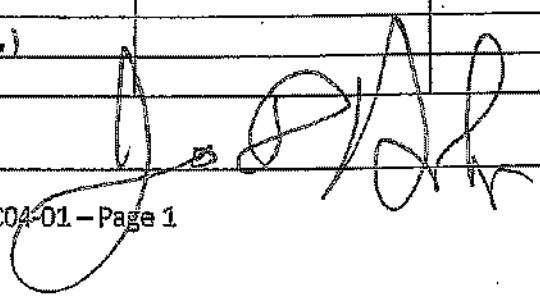
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/18/16
Receiving ID#	104181603
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	JD

COPY

LAB INFORMATION		Oil field sites 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.)	0.9	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	607
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	120.4 mS		
% Solids	6.1		
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	4/19/16
Receiving ID#	ED419/601
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		CLIENT INFORMATION	
Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	3450
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	62°F		
Conductivity	> 400.0 μS		
% Solids	34.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature	[Signature]		

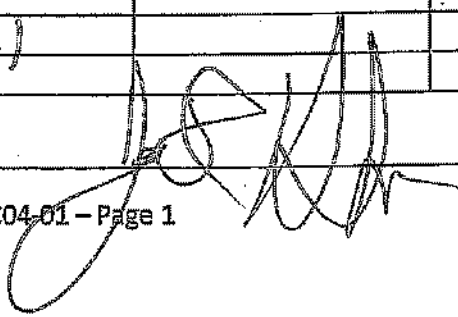
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/19/16
Receiving ID#	F04191602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	88

COPY

LAB INFORMATION		SUBSTRATE	
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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	7.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	62°F		
Conductivity	150.4 μS		
% Solids	7.6		
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	7/20/16
Receiving ID#	104201601
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>

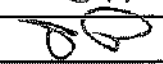
COPY

ANALYSIS INFORMATION		CHEMICALS	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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	13.92
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	60°F		
Conductivity	277.8 μ S		
% Solids	13.9		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

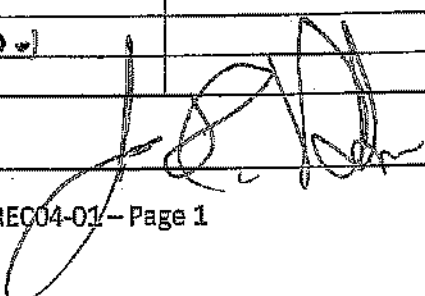
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/20/16
Receiving ID#	ED4201602
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

COPY

WASTE INFORMATION		CHEMICAL ANALYSIS	
Waste Stream	Characteristics	Parameter	Value
Compatible? (RT#)	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.13	TDS	12.6?
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	69°F		
Conductivity	252.6 mS		
% Solids	12.6		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

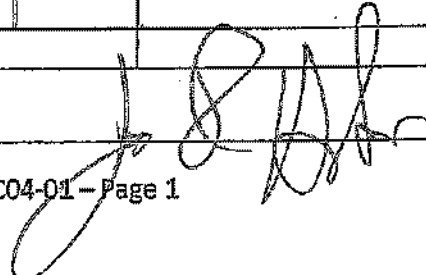
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/24/16
Receiving ID#	± 042196.01
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	ST

COPY

ANALYSIS INFORMATION		CONTAMINANTS	
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.05	TDS	4.0?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	80.1-5		
% Solids	4.0		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

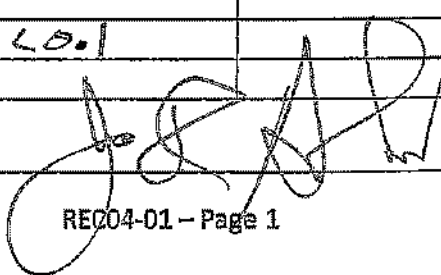
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/21/16
Receiving ID#	104211602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	ML

COPY

LAB DESCRIPTION		OTHER DATA ONLY	
All waste shipments			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Only Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	5.67
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	112.6 μS		
% Solids	5.6		
Turbidity	Yes No		
Color (visual)			
TSS (%)	20.1		
Radiation Screen (as needed)			
Lab Signature			

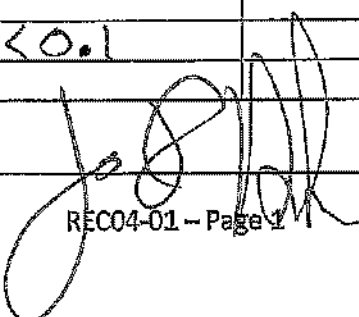
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/22/16
Receiving ID#	E04221601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.P.

COPY

TEST INFORMATION		ONLINE TESTS ONLY	
WASTES 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.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	8.77
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	174.4 mS		
% Solids	8.7		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

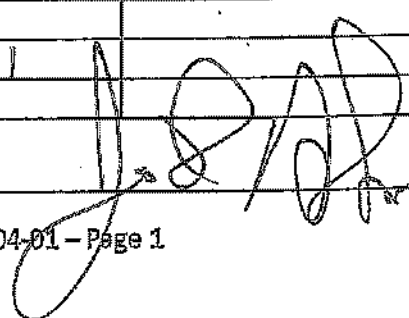
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/25/16
Receiving ID#	I04251602
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	J.P.

COPY

LAB INFORMATION		Oil and Grease Oil	
ALWAYS SUBMIT			
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	1.10	TDS	6.87
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	68°F		
Conductivity	134.9 µS		
% Solids	6.8		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

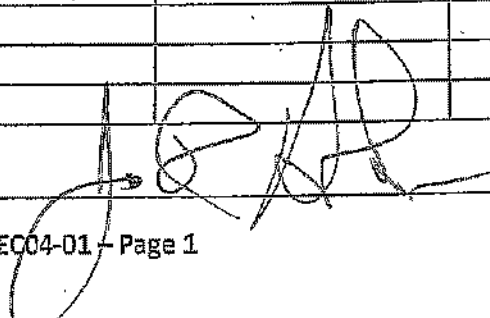
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/25/16
Receiving ID#	LO4251601
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	N/L

COPY

LAB INFORMATION		Oil & Grease Only	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oil Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 146	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.22	TDS	11.5?
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	229.9 μS		
% Solids	11.5		
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	4-26-16
Receiving ID#	104261601
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

TEST INFORMATION		DISCIPINES	
WASTES	TESTS	DISCIPINES	TESTS
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.)	1.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.12	TDS	8.27
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	121.9mS		
% Solids	8.2		
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	4.27.01
Receiving ID#	104271601
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		DUST 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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.9%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	820µS		
% Solids	4.9		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2.01		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/27/16
Receiving ID#	104271602
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

WASTE CHARACTERISTICS		COMPOSITION	
Compatible? (RT#)	<input checked="" type="radio"/> Yes <input type="radio"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140	Magnesium	
pH (S.U.)	1.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.14	TDS	237
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	116.5		
% Solids	7.3		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<0.1		
Radiation Screen (as needed)			
Lab Signature	<i>[Signature]</i>		

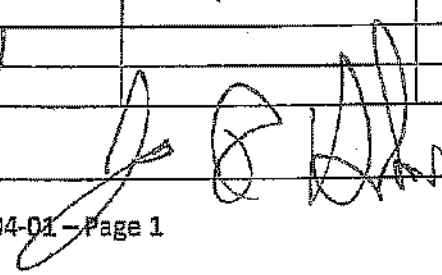
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4-27-16
Receiving ID#	T04221603
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DAI

COPY

LAB INFORMATION		Oilfield/Biosolids Only	
All Wastes Inert			
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.)	1.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.07	TDS	4.5%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	64°F		
Conductivity	89.8 mS		
% Solids	4.5		
Turbidity	Yes No		
Color (visual)			
TSS (%)	< 0.1		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS
CHARACTERIZATIONS**

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
 28470 Cltrin Dr, Romulus, MI 48174. Telephone 734-946 1000. Fax 734 946 1002

Generator Waste Profile
Profile # 00255

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

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:
Unused, unwanted product Nalco 7408
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
Unwanted unused product

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

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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>1.37</u>	<i>acceptable</i> <i>040116</i>
--	---	---	---	------------------------------------

pH: NA ≤ 2 2-4 4-6 6-8 8-10 10-12.6 ≥ 12.6

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

VOC CONCENTRATION - <1% 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>Sodium Bisulfite</u>	<u>30</u>	<u>60</u>			
<u>T.A.E.P</u>	<u>Balance</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 type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm	Arsenic (As)	D004	<input checked="" 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)	D006	<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 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 5000 lbs
 3. DOT Shipping Name Bisulfites, aqueous solution, NOS Hazard Class 8 UN/NA UN2693
 PG III ERG 154 Hazardous Constituents for "n.o.s." (sodium bisulfite)
 4. Method of Shipment: Bulk Tanker Vao 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



SAFETY DATA SHEET

NALCO® 7408

Section: 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NALCO® 7408

Other means of identification : Not applicable.

Recommended use : CHLORINE SCAVENGER

Restrictions on use : Refer to available product literature or ask your local Sales Representative for restrictions on use and dose limits.

Company : Nalco Company
1601 W. Diehl Road
Naperville, Illinois 60563-1198
USA
TEL: (630)305-1000

Emergency telephone number : (800) 424-9300 (24 Hours) CHEMTREC

Issuing date : 10/09/2014

Section: 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral) : Category 4

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : Harmful if swallowed.

Precautionary Statements : **Prevention:**
Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product.
Response:
IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
Disposal:
Dispose of contents/ container to an approved waste disposal plant.

Other hazards : None known.

Section: 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Chemical Name	CAS-No.	Concentration: (%)
---------------	---------	--------------------

	1710	
--	------	--

SAFETY DATA SHEET

NALCO® 7408

Sodium Bisulfite

7631-90-5

30 - 60

Section: 4. FIRST AID MEASURES

- In case of eye contact : Rinse with plenty of water. Get medical attention if symptoms occur.
- In case of skin contact : Wash off with soap and plenty of water. Get medical attention if symptoms occur.
- If swallowed : Rinse mouth. Get medical attention if symptoms occur.
- If inhaled : Get medical attention if symptoms occur.
- Protection of first-aiders : In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.
- Notes to physician : Treat symptomatically.

See toxicological information (Section 11)

Section: 5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : None known.
- Specific hazards during firefighting : Not flammable or combustible.
- Hazardous combustion products : Carbon oxides
- Special protective equipment for firefighters : Use personal protective equipment.
- Specific extinguishing methods : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

Section: 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in sections 7 and 8.
- Environmental precautions : Do not allow contact with soil, surface or ground water.
- Methods and materials for containment and cleaning up : Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Flush away traces with water. For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway.

Section: 7. HANDLING AND STORAGE

SAFETY DATA SHEET

NALCO® 7408

- Advice on safe handling : Do not ingest. Wash hands thoroughly after handling. Use only with adequate ventilation.
- Conditions for safe storage : Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers.
- Suitable material : The following compatibility data is suggested based on similar product data and/or industry experience: HDPE (high density polyethylene), Brass, Neoprene, Polyurethane, EPDM, Polypropylene, Polyethylene, PVC, Chlorosulfonated polyethylene rubber, Fluoroelastomer, Compatibility with Plastic Materials can vary; we therefore recommend that compatibility is tested prior to use.
- Unsuitable material : The following compatibility data is suggested based on similar product data and/or industry experience: Stainless Steel 304, Buna-N, Epoxy phenolic resin, 100% phenolic resin liner

Section: 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS No	Form of exposure	Permissible Concentration	Basis
Sodium Bisulfite	7631-90-5	TWA	5 mg/m ³	ACGIH
		TWA	5 mg/m ³	NIOSH REL

- Engineering measures : Effective exhaust ventilation system Maintain air concentrations below occupational exposure standards.

Personal protective equipment

- Eye protection : Safety glasses
- Hand protection : Wear protective gloves.
Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin protection : Wear suitable protective clothing.
- Respiratory protection : No personal respiratory protective equipment normally required.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Wash face, hands and any exposed skin thoroughly after handling.

Section: 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : Liquid
- Colour : clear
- Odour : Pungent
- Flash point : does not flash
- pH : 4.1, 1 %

SAFETY DATA SHEET

NALCO® 7408

Method: ASTM E 70

Odour Threshold	: no data available
Melting point/freezing point	: FREEZING POINT: 1.1 °C
Initial boiling point and boiling range	: 104 °C
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Upper explosion limit	: no data available
Lower explosion limit	: no data available
Vapour pressure	: 32 mm Hg (25 °C)
Relative vapour density	: 2.2 (Air = 1)
Relative density	: 1.37 (25 °C) ASTM D-1298
Density	: 11.4 lb/gal
Water solubility	: completely soluble
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Auto-ignition temperature	: no data available
Thermal decomposition	: Carbon oxides
Viscosity, dynamic	: 2.8 mPa.s (25 °C)
Viscosity, kinematic	: no data available
VOC	: 0 % 0 g/l

Section: 10. STABILITY AND REACTIVITY

Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reaction known under conditions of normal use.
Conditions to avoid	: None known.
Incompatible materials	: Contact with strong oxidizers (e.g. chlorine, peroxides, chromates, nitric acid, perchlorate, concentrated oxygen, permanganate) may generate heat, fires, explosions and/or toxic vapors. Contact with strong acids (e.g. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) may generate heat, splattering or boiling and toxic vapors. SO ₂ may react with vapors from neutralizing amines and may produce a visible cloud of amine salt particles.

Section: 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure : Inhalation, Eye contact, Skin contact

SAFETY DATA SHEET

NALCO® 7408

Potential Health Effects

- Eyes : Health injuries are not known or expected under normal use.
- Skin : Health injuries are not known or expected under normal use.
- Ingestion : Harmful if swallowed.
- Inhalation : Health injuries are not known or expected under normal use.
- Chronic Exposure : Health injuries are not known or expected under normal use.

Experience with human exposure

- Eye contact : No symptoms known or expected.
- Skin contact : No symptoms known or expected.
- Ingestion : No information available.
- Inhalation : No symptoms known or expected.

Toxicity

Product

- Acute oral toxicity : LD50 rat:
Test substance: Similar Product

Acute toxicity estimate : 1,250 mg/kg
- Acute inhalation toxicity : no data available
- Acute dermal toxicity : LD50 rabbit: 3 g/kg
Test substance: Similar Product
- Skin corrosion/irritation : Species: Rabbit
Result: 1.0
Method: Draize Test
Test substance: Similar Product
- Serious eye damage/eye irritation : Species: rabbit
Result: 9.4
Method: Draize Test
Test substance: Similar Product
- Respiratory or skin sensitization : no data available
- Carcinogenicity
- IARC : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- OSHA : No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SAFETY DATA SHEET

NALCO® 7408

NTP : No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive effects : no data available

Germ cell mutagenicity : no data available

Teratogenicity : no data available

STOT - single exposure : no data available

STOT - repeated exposure : no data available

Aspiration toxicity : no data available

Components

Acute inhalation toxicity : Sodium Bisulfite
LC50 rat: 5.5 mg/l
Exposure time: 4 h

Section: 12. ECOLOGICAL INFORMATION

Ecotoxicity

Environmental Effects : This product has no known ecotoxicological effects.

Product

Toxicity to fish : LC50 *Oncorhynchus mykiss* (rainbow trout): > 100 mg/l
Exposure time: 96 hrs
Test substance: Product

LC50 *Pimephales promelas* (fathead minnow): 382 mg/l
Exposure time: 96 hrs
Test substance: Similar Product

LC50 *Gambusia affinis* (Mosquito fish): 240 mg/l
Exposure time: 96 hrs
Test substance: Active Substance

Product

Toxicity to daphnia and other aquatic invertebrates : LC50 *Daphnia magna* (Water flea): 728 mg/l
Exposure time: 48 hrs
Test substance: Similar Product

LC50 *Daphnia magna* (Water flea): 275 mg/l
Exposure time: 48 hrs
Test substance: Product

SAFETY DATA SHEET

NALCO® 7408

LC50 Daphnia magna (Water flea): 119 mg/l
Exposure time: 48 hrs
Test substance: Active Substance

Product

Toxicity to fish (Chronic toxicity) : EC25 / IC25: 382 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

LOEC: 500 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

NOEC: 250 mg/l
Exposure time: 7 Days
Species: Fathead Minnow
Test substance: Product

Product

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : LOEC: 500 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product

EC25 / IC25: 277 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product

NOEC: 250 mg/l
Exposure time: 7 Days
Species: Ceriodaphnia dubia
Test substance: Product

Persistence and degradability

Greater than 95% of this product consists of inorganic substances for which a biodegradation value is not applicable.

Chemical Oxygen Demand (COD): 85,000 mg/l

Mobility

The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite TM, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages;

SAFETY DATA SHEET

NALCO® 7408

Air : <5%
Water : 30 - 50%
Soil : 50 - 70%

The portion in water is expected to be soluble or dispersible.

Bioaccumulative potential

This preparation or material is not expected to bioaccumulate.

Other Information

no data available

Section: 13. DISPOSAL CONSIDERATIONS

If this product becomes a waste, it is not a hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

Disposal methods : Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility.

Disposal considerations : Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Section: 14. TRANSPORT INFORMATION

The shipper/consignor/sender is responsible to ensure that the packaging, labeling, and markings are in compliance with the selected mode of transport.

Land transport (DOT)

The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Proper shipping name : BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Technical name(s) : SODIUM BISULPHITE
UN/ID No. : UN 2693
Transport hazard class(es) : 8
Packing group : III
Reportable Quantity (per package) : 12,500 lbs
RQ Component : SODIUM BISULFITE

Air transport (IATA)

The presence of an RQ component (Reportable Quantity for U.S. EPA and DOT) in this product causes it to be regulated with an additional description of RQ for road, or as a class 9 for road and air, ONLY when the net weight in the package exceeds the calculated RQ for the product.

Proper shipping name : BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Technical name(s) : SODIUM BISULPHITE
UN/ID No. : UN 2693
Transport hazard class(es) : 8

SAFETY DATA SHEET

NALCO® 7408

Packing group : III
Reportable Quantity (per package) : 12,500 lbs
RQ Component : SODIUM BISULFITE

Sea transport (IMDG/IMO)

Proper shipping name : BISULPHITES, AQUEOUS SOLUTION, N.O.S.
Technical name(s) : SODIUM BISULPHITE
UN/ID No. : UN 2693
Transport hazard class(es) : 8
Packing group : III

Section: 15. REGULATORY INFORMATION

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ (lbs)	Calculated product RQ (lbs)
Sodium Bisulfite	7831-90-5	5000	12500

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Acute Health Hazard

SARA 302 : No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

California Prop 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

INTERNATIONAL CHEMICAL CONTROL LAWS :

TOXIC SUBSTANCES CONTROL ACT (TSCA)

The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710)

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA)

The substance(s) in this preparation are included in or exempted from the Domestic Substance List (DSL).

AUSTRALIA

All substances in this product comply with the National Industrial Chemicals Notification & Assessment Scheme (NICNAS).

CHINA

All substances in this product comply with the Provisions on the Environmental Administration of New Chemical Substances and are listed on or exempt from the Inventory of Existing Chemical Substances China (IECSC).

SAFETY DATA SHEET

NALCO® 7408

EUROPE

The substances in this preparation have been reviewed for compliance with the EINECS or ELINCS inventories.

JAPAN

All substances in this product comply with the Law Regulating the Manufacture and Importation Of Chemical Substances and are listed on the Existing and New Chemical Substances list (ENCS).

KOREA

All substances in this product comply with the Toxic Chemical Control Law (TCCL) and are listed on the Existing Chemicals List (ECL)

NEW ZEALAND

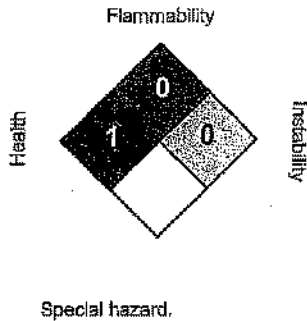
All substances in this product comply with the Hazardous Substances and New Organisms (HSNO) Act 1996, and are listed on or are exempt from the New Zealand Inventory of Chemicals.

PHILIPPINES

All substances in this product comply with the Republic Act 6969 (RA 6969) and are listed on the Philippines Inventory of Chemicals & Chemical Substances (PICCS).

Section: 16. OTHER INFORMATION

NFPA:



HMIS III:

HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
2 = Moderate, 3 = High
4 = Extreme, * = Chronic

Revision Date : 10/09/2014
Version Number : 1.0
Prepared By : Regulatory Affairs

REVISED INFORMATION: Significant changes to regulatory or health information for this revision is indicated by a bar in the left-hand margin of the SDS.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

For additional copies of an MSDS visit www.nalco.com and request access.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00863**

GENERATOR INFORMATION

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

BILLING INFORMATION SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Acidic Solution

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

Out dated acidic solution.

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: D 002

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> BI-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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>acidic</i> <i>04.01.16</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
Acidic solution	100	100			
		%			%
		%			%
		%			%
		%			%

Metals: Indicate if this waste contains any of the following metals. If generator has analytical data, check appropriate box.

Lab Analysis Generator Knowledge TCLP TOTAL

RCRA	Not Concentration		Not Concentration		Atomic #s	D001	D002	D003	D004	D005	D006	D007	D008	D009	D010	D011	D012
	ppm	ppm	ppm	ppm													
Chlorides			Aromatic Amino		Barium (Ba)												
Cyanides			Residues		Cadmium (Cd)												
Sulfides			Residues		Chromium (Cr)												
...			...		Lead (Pb)												

TCLP Organics Data: D001-D014 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 UNISH/Flammable Positive Carcinogens NESLAB Wastes (Benzene, etc) Biological None Apply

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49 CFR 172.101 & 173 Subpart D)? Yes No
2. Reportable Quantity (RQ) in pounds: 1000
3. DOT Shipping Name: Waste Corrosive Liquids Hazard Class: 8 UNNA: 1760
4. Method of Shipment: Bulk Tanker Van/Truck Rail Car Drums Pallets
5. Number of Units to Ship Now: One drum 6. Anticipated Volume (Units per Year): One Time
7. Special Handling Requirements: None

CERTIFICATION STATEMENT

I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted to 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, the material has been analyzed as to make this information misleading. I understand that others may rely on this representation and warrant in the handling and processing of the waste material described hereon. If this is not a true and accurate representation, I request Environmental Sciences Technologies, Inc. to correct any inconsistencies. Any corrections Environmental Sciences Technologies makes will be consistent with the results of the sample characterization and/or regulatory requirements.

Printed Name: [Redacted] Title: [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 generator's waste profile using an appropriate container. A representative sample is one obtained using any of the applicable sampling methods cited in EPA 821-R-92-010, 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 our Environmental Sciences Technologies representative.

1. SAMPLING METHOD: _____ COLLECTION POINT: _____

2. SAMPLE COLLECTOR'S NAME: _____ TITLE: _____ EMPLOYER: _____

3. Sample No. _____ Preservations: Yes No

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

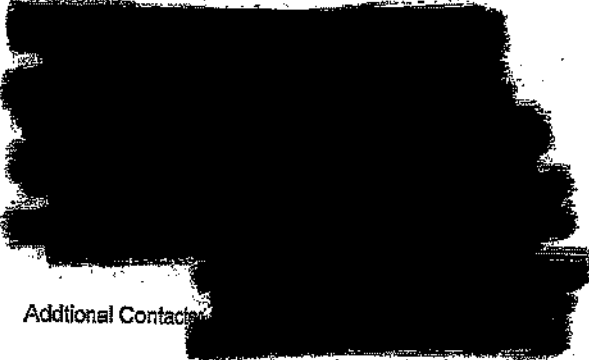
Relinquished By: (Signature)	Date	Time	Received By: (Signature)	Date	Time



Analytical Laboratory Report

Report ID: S72162.01(01)
Generated on 03/31/2016

Report to



Report produced by:

Merit Laboratories, Inc.
2680 East Lansing Drive
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:
Kevin George (kgeorge@meritlabs.com)
Barbara Ball (bball@meritlabs.com)

Additional Contact

Report Summary

Lab Sample ID(s): S72162.01
Project: HNW Investments
Collected Date: 03/16/2016
Submitted Date/Time: 03/17/2016 13:40
Sampled by: Joe Sparks
P.O. #:

Table of Contents

- Cover Page (Page 1)
- General Report Notes (Page 2)
- Report Narrative (Page 2)
- Laboratory Certifications (Page 3)
- Qualifier Descriptions (Page 3)
- Glossary of Abbreviations (Page 3)
- Method Summary (Page 4)
- Sample Summary (Page 5)

Maya Murshak
Technical Director





Analytical Laboratory Report

Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#68699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

Qualifier Descriptions

Qualifier	Description
I	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
J	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



Analytical Laboratory Report

Method Summary

Method	Version
ASTMD3278 - 96	ASTM Method D3278 - 96(2011)
E335.4/SM4500-CN	EPA Method 335.4 Revision 1.0 / Standard Method 4500-CN E 20th Edition
SM4500-S2 D	Standard Method 4450 S2 D 20th Edition
SW1311	SW 846 Method 1311 Revision 0 July 1992
SW3015A	SW 846 Method 3015A Revision 1 February 2007
SW3510C	SW 846 Method 3510C Revision 3 December 1998
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8081B	SW 846 Method 8081B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8151A	SW 846 Method 8151A Revision 1 December 1998
SW8260C	SW 846 Method 8260C Revision 3 August 2006
SW8270D	SW 846 Method 8270D Revision 4 February 2007
SW9041A	SW 846 Method 9041A Revision 1 July 1992



Analytical Laboratory Report

General Report Notes

Results relate only to items tested as received by laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

Report Narrative

There is no additional narrative for this analytical report



Analytical Laboratory Report

Sample Summary (1 samples)

Sample ID: Sample Tag



Matrix
Liquid

Collected Date/Time
03/16/18 11:30





Analytical Laboratory Report

Lab Sample ID: [REDACTED]

Collection Date/Time: 03/16/2016 11:30

Matrix: Liquid

COC Reference: 80528

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
2	32oz Glass	None	Yes	5.2	R

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	Limits	Flags
Extraction / Prep.								
Extraction, PCB	Completed			SW3550C	03/18/16 11:22	PLB		
Mercury Digestion	Completed			SW7471B	03/23/16 10:00	RGS		
Metal Digestion	Completed			SW3015A	03/23/16 10:00	PER		
Pesticides Extraction	Completed			SW3510C	03/21/16 11:43	PLB		
TCLP Zero Headspace Ext.	<0.5%			SW1311	03/21/16 15:11	JBL		
TCLP/SPLP BNA Extraction	Completed			SW3510C	03/23/16 10:32	EMR		
TCLP Extraction								
Initial Sample pH	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
pH after 3.5 ml HCl	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
Sample Used g	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
Final Volume mL	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
TCLP Extraction Fluid	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
Final Extract pH	<0.5%			SW1311	03/21/16 15:12-03/21	JBL		
Inorganics								
Flash Point	Not detected	oF	180	ASTMD3278 - 96	03/22/16 20:03	PL	<140	
pH	Not detected	STD Units	1	SW9041A	03/23/16 14:12	ASB	2-12.5	
Reactive Cyanide	Not detected	mg/kg	0.5	E335.4/SM4500-CN	03/21/16 13:16	JDP		
Reactive Sulfide	Not detected	mg/kg	1.9	SM4500-S2 D	03/21/16 10:16	JDP		
Metals								
Arsenic, TCLP	0.22	mg/L	0.20	SW6020A	03/23/16 12:03	PER	5.0	
Barium, TCLP	Not detected	mg/L	1.0	SW6020A	03/23/16 12:03	PER	100.0	
Cadmium, TCLP	Not detected	mg/L	0.20	SW6020A	03/23/16 12:03	PER	1.0	
Chromium, TCLP	Not detected	mg/L	0.50	SW6020A	03/23/16 12:03	PER	5.0	
Lead, TCLP	Not detected	mg/L	0.20	SW6020A	03/23/16 12:03	PER	5.0	
Mercury, TCLP	Not detected	mg/L	0.003	SW7471B	03/23/16 14:00	RGS	0.2	
Selenium, TCLP	Not detected	mg/L	0.40	SW6020A	03/23/16 12:03	PER	1.0	
Silver, TCLP	Not detected	mg/L	0.20	SW6020A	03/23/16 12:03	PER	5.0	
Organics - PCBs/Pesticides								
PCB List								
PCB-1016	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1242	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1221	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1232	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1245	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1254	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		
PCB-1260	Not detected	ug/kg	1,000	SW8082A	03/18/16 16:17	JAN		

I-Result is outside of stated limit criteria



Analytical Laboratory Report

Lab Sample ID: S72162.01 (continued)

Analysis	Results	Units	RL	Method	Run Date/Time	Tech Limits	Flags
Organics - PCBs/Pesticides (continued)							
TCLP Pesticides							
Chlordane	Not detected	ug/L	20	SW8081B	03/22/16 12:19	JAN 30	
Endrin	Not detected	ug/L	15	SW8081B	03/22/16 12:19	JAN 20	
Heptachlor	Not detected	ug/L	6	SW8081B	03/22/16 12:19	JAN 8	
Lindane	Not detected	ug/L	300	SW8081B	03/22/16 12:19	JAN 400	
Methoxychlor	Not detected	ug/L	7,000	SW8081B	03/22/16 12:19	JAN 10,000	
Toxaphene	Not detected	ug/L	400	SW8081B	03/22/16 12:19	JAN 500	
Organics - Semi-Volatiles							
TCLP Semi Volatiles							
o-Cresol	Not detected	ug/L	1,000	SW8270D	03/23/16 12:03	PL 200,000	
p,m-Cresol	Not detected	ug/L	1,000	SW8270D	03/23/16 12:03	PL 200,000	
Pentachlorophenol	Not detected	ug/L	1,000	SW8270D	03/23/16 12:03	PL 100,000	
2,4,5-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	03/23/16 12:03	PL 400,000	
2,4,6-Trichlorophenol	Not detected	ug/L	1,000	SW8270D	03/23/16 12:03	PL 2,000	
2,4-Dinitrotoluene	Not detected	ug/L	90	SW8270D	03/23/16 12:03	PL 130	
Hexachlorobenzene	Not detected	ug/L	90	SW8270D	03/23/16 12:03	PL 130	
Hexachlorobutadiene	Not detected	ug/L	100	SW8270D	03/23/16 12:03	PL 500	
Hexachloroethane	Not detected	ug/L	100	SW8270D	03/23/16 12:03	PL 3,000	
Nitrobenzene	Not detected	ug/L	100	SW8270D	03/23/16 12:03	PL 2,000	
Pyridine	Not detected	ug/L	100	SW8270D	03/23/16 12:03	PL 5,000	
Organics - Volatiles							
TCLP Volatiles							
Benzene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 500	X
Carbon tetrachloride	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 500	X
Chlorobenzene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 100,000	X
Chloroform	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 6,000	X
1,4-Dichlorobenzene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 7,600	X
1,2-Dichloroethane	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 500	X
1,1-Dichloroethene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 700	X
2-Butanone (MEK)	Not detected	ug/L	5,000	SW8260C	03/30/16 20:23	WAT 200,000	X
Tetrachloroethene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 700	X
Trichloroethene	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 500	X
Vinyl chloride	Not detected	ug/L	500	SW8260C	03/30/16 20:23	WAT 200	X
Other / Misc.							
TCLP Herbicides							
2,4-D	Not detected	mg/L	0.2	SW8151A	03/22/16 12:00	KAR 10.0	O
2,4,5-TP (Silvex)	Not detected	mg/L	0.2	SW8151A	03/22/16 12:00	KAR 1.0	O

X-Elevated reporting limit due to matrix interference

O-Analysis performed by outside laboratory. See attached report.



2680 East Lansing Dr., East Lansing, MI 48823
 Phone (517) 332-0167 Fax (517) 332-4034
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

80526

REPORT TO

CONTACT NAME

COMPANY

ADDRESS

CITY

P.O. NO.

QUOTE NO.

CONTACT NAME

COMPANY

ADDRESS

CITY

PHONE NO.

E-MAIL ADDRESS

STATE ZIP CODE

INVOICE TO

CHAIN OF CUSTODY RECORD

TURNAROUND TIME REQUIRED 1 DAY 2 DAYS 3 DAYS 5 DAYS

DELIVERABLES REQUIRED STD LEVEL I LEVEL II LEVEL III LEVEL IV BDD OTHER

MATRIX: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SLUDGE
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WPIPE A=AIR W=WASTE

MERIT LAB NO. YEAR DATE TIME

IDENTIFICATION-DESCRIPTION

Containers & Preservatives

MOB MOH HOB HOS

BOTTLE #

MATERIAL

WASTE

Certifications
 OHIO VAP Drinking Water
 DoD NPDES
 Project Locations
 Detroit New York
 Other
 Special Instructions

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)
 X TCLP *2/10/02*
 X Herbs (TCLP)
 X Pesticides (TCLP)
 X PCB
 X PIC

RELINQUISHED BY: SIGNATURE/Organization
 RECEIVED BY: SIGNATURE/Organization

RELINQUISHED BY: SIGNATURE/Organization
 RECEIVED BY: SIGNATURE/Organization

DATE TIME
 DATE TIME

NOTES: TEMP. ON ARRIVAL 52

SEAL NO. SEAL INTACT YES NO
 INITIALS

SEAL NO. SEAL INTACT YES NO
 INITIALS



4425 Manchester Rd
Kalamazoo, MI 49001
Phone 269 381-9686
Fax 269 381-9698
www.karlabs.com

Merit Laboratories, Inc.
2680 East Lansing Dr.
East Lansing, MI 48823

KAR Project No. : 603151
Date Reported : 03/25/16
Date Activated : 03/18/16
Date Due : 03/25/16
Date Validated : 03/25/16

Project

Description : Analysis of one liquid sample from S72162.

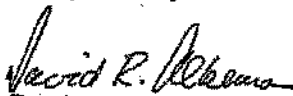
Dear Client,

Your laboratory data is presented to you in this report. Unless otherwise stated under the "Comments" heading, all tests were performed within the maximum allowable holding times, have met or exceeded QC requirements and the result represents the sample as it was received. If a sample was identified as drinking water under the Safe Drinking Water Act, the "Comments" column may also contain federal drinking water information including MCL which is the Maximum Contaminant Level set by USEPA. Values enclosed in brackets ([]) are Secondary MCL's and are non-enforceable guidelines for aesthetic quality.

If you wish to contact us about this work please mention KAR Project No. 603151. To arrange additional sampling or testing please contact our Client Services Department. If you have any questions regarding quality assurance please contact us.

Thank you for the opportunity to serve you. Please do not hesitate to call if we can provide additional assistance.

Respectfully submitted,


David R. Alkema
Laboratory Manager

KAR Laboratories, Inc. maintains Full Certification status for Bacteriology, Inorganics, Regulated Organics and Synthetic Organics through USEPA, Michigan Department of Public Health and Indiana State Department of Health. This report may only be reproduced in full and not without the written consent of Merit Laboratories, Inc.

LABORATORY DETAIL REPORT

Client: *Merit Laboratories, Inc.*

KAR Project No. : **603151**

Date Reported : **03/25/16**

Attest: *David R. Alkema*
David R. Alkema, Lab Manager

Project

Description: *Analysis of one liquid sample from S72162.*

Sample ID : "72162.01"						
Sampled By :			Date Received : 03/18/16			
Sample Date : 03/16/16			Sample Type : liquid			
Sample Time : 1130			KAR Sample No. : 603151-01			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
TCLP extraction	Completed		EPA 1311	03/18/16	JWW	
TCLP report	See comment			03/25/16	CLK	This material does not exhibit the Toxicity Characteristic with respect to the requested TC parameters.

Sample ID : TCLP Leachate of 72162.01						
Sampled By :			Date Received : 03/18/16			
Sample Date :			Sample Type : TCLP			
Sample Time :			KAR Sample No. : 603151-011			
Test	Result	Units of Measure	Method	Analyzed	Analyst	Comments
Prep. herbicides	Completed		EPA 8151	03/21/16	GMB	
TC Herbicides	See below		EPA 8151	03/22/16	GMB	
2,4,5-TP (Silvex)	<0.2	mg/L	EPA 8151	03/22/16	GMB	TC regulatory limit is 1.0 mg/L.
2,4-D	<0.2	mg/L	EPA 8151	03/22/16	GMB	TC regulatory limit is 10.0 mg/L.

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00865**

GENERATOR INFORMATION

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

BILLING INFORMATION

SAME AS ABOVE

Company Name: [REDACTED]
 Address: [REDACTED]
 City: [REDACTED] State: [REDACTED]
 Attention: [REDACTED] Phone: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Ammonium Fluoride Solution / Hydrofluoric Acid Mix

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

By-Product of nitrogen trifluoride production

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 E007

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Light Blue</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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>04/25/16</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 - NONE 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
Ammonium Hydrogen Fluoride	55	40			%
Hydrofluoric Acid	15	5			%
Water	50	30			%
					%
					%

Material Safety Data Sheet

Version 1.0

Revision Date 05/11/2009

Print Date 05/11/2009

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ammonium Hydrogen Difluoride Solution
Synonyms : Ammonium Bifluoride Solution, ABF Solution

Manufacturer/Importer/Distributor

Telephone

Emergency telephone number (24h)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Concentration (Weight)
Ammonium Hydrogen Fluoride	1341-49-7	45% - 55 %
Hydrofluoric acid	7664-39-3	5% - 15 %
Water	7732-18-5	30% - 50 %

3. HAZARDS IDENTIFICATION

Emergency Overview

Corrosive
Toxic if swallowed.
Requires specialized medical treatment procedures.
Symptoms may be delayed.
Can cause severe burns if inhaled or upon skin contact.
Highly toxic by inhalation.

Potential Health Effects

- Inhalation : Can cause severe eye, skin and respiratory tract burns. Risk of serious damage to the lungs (by inhalation). May cause nose, throat, and lung irritation. Inhalation of aerosol may cause irritation to the upper respiratory tract. Highly toxic by inhalation.
- Eye contact : Causes eye burns. May cause blindness.
- Skin contact : Causes skin burns. Causes severe burns which may not be immediately painful or visible.
- Ingestion : If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the oesophagus and the stomach. May be fatal if swallowed. Toxic if swallowed.
- Chronic Health Hazard : This product contains no listed carcinogens according to IARC, ACGIH, NTP and/or OSHA in concentrations of 0.1 percent or greater. Chronic fluoride exposure may cause bone or joint changes in humans (fluorosis).

Material Safety Data Sheet

Version 1.0

Revision Date 05/11/2009

Print Date 05/11/2009

Exposure Guidelines

Target Organs : Skin.
Eyes.
Respiratory system.
Lungs.
Kidney.
Liver.
Heart.
Teeth and bone.

Aggravated Medical Condition

Eye disease Skin disorders and Allergies. Asthma. Kidney disorders. Liver disorders. Acute or chronic respiratory conditions.

4. FIRST AID MEASURES

- General advice : If additional information is needed call the Air Products Emergency Number or consult the Air Products Safetygram 29: Medical Treatment Protocol for Hydrofluoric Acid Burns, available on our website at <http://www.airproducts.com/productstewardship/>. Prompt medical attention is required in all cases of exposure. Seek medical advice. If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately.
- Eye contact : Hold eyelids apart, initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Seek medical treatment immediately. Irrigate eye intermittently for 20 minutes with an aqueous calcium gluconate 1% solution, if available.
- Skin contact : Immediately remove contaminated clothing, and any extraneous chemical, if possible to do so without delay. Initiate and maintain gentle and continuous irrigation until the patient receives medical care. If medical care is not promptly available, continue to irrigate for one hour. Cover wound with sterile dressing. A physician should be consulted for all exposures. Burns covering an area greater than 25 square centimeters (4 square inches) require immediate treatment by a medical doctor. Immediately go to a safety shower or other available water and flush with copious amounts of water for a minimum of 5 minutes. This will rinse off excess HF. Speed and thoroughness in washing off the acid is of primary importance, since after 5 minutes the HF is being absorbed into the tissue. Remove contaminated clothing. With gloved hand apply 2.5% calcium gluconate gel to the burn area. Alternative treatment is to soak the affected areas in an iced 0.13% water solution (1:750) of Zephiran® chloride (benzalkonium chloride solution, NF). Use ice cubes, not shaved ice, to prevent frostbite. If soaking is impractical, soaks or compresses may be used. (Do not use Zephiran® for burns of the eye.) If immersion is impractical, soaked compresses of the same solution should be applied to the area. Immersion or compresses must be used continuously for two hours.
- Ingestion : If a person vomits when lying on his back, place him in the recovery position. Drink 1 to 3 glasses of water or milk. Do not induce vomiting. Call a physician immediately. Never give anything by mouth to an unconscious person. Gastric lavage with calcium chloride or calcium gluconate may be performed by a physician. Administer several vials of 10% aqueous calcium gluconate orally.

Material Safety Data Sheet

Version 1.0

Revision Date 05/11/2009

Print Date 05/11/2009

(Calcium carbonate or an antacid containing calcium carbonate or magnesium carbonate or hydroxide may also be used.) Prevent aspiration of vomit. Turn victim's head to the side.

Inhalation

: If breathing has stopped or is labored, give assisted respirations. Supplemental oxygen may be indicated. If the heart has stopped, trained personnel should begin cardiopulmonary resuscitation immediately. As soon as possible give 2.5% to 3% calcium gluconate solution by nebulizer. Move to fresh air.

Notes to physician

Treatment

: This advice is provided to the attending physician because of the specific properties of hydrogen fluoride and hydrofluoric acid. All cases of ingestion and airway exposure, and skin burns with hydrofluoric acid >20% should be regarded as potentially fatal. Patients who have burns and pain within minutes of exposure can be assumed to have been exposed to concentrated acid and are at risk of rapid clinical deterioration and death. Burns can be accompanied by absorption of fluoride through the skin with sequestration of circulating calcium leading to hypocalcemia and hyperkalemia from the release of cell contents. Fatal cardiac dysrhythmias may ensue. A person who has HF burns greater than 25 square inches or who has been burned with concentrated HF should be admitted immediately to an intensive care unit and carefully monitored by EKG for 24 to 48 hours. Blood sampling should be taken to monitor circulating fluoride, potassium and calcium levels. Hemodialysis may be necessary for fluoride removal and correction of hyperkalemia. HF inhaled in high concentrations may cause acute inflammation and edema of the airway and acute pulmonary edema. Anyone who has been exposed to HF gas or mists and experiences respiratory irritation should be admitted to and monitored in an intensive care unit. In some cases, if the eyes are exposed to HF, it may penetrate to internal structures resulting in irreversible damage. HF skin burns are usually accompanied by severe, throbbing pain, which is thought to be due to irritation of nerve endings by increased levels of potassium ions entering the extracellular space to compensate for the reduced levels of calcium ions, which have been bound to the fluoride. Do NOT use local anesthetic or analgesic. RELIEF OF PAIN IS AN IMPORTANT GUIDE TO THE SUCCESS OF TREATMENT.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam.
Carbon dioxide (CO2).
Dry chemical.
Dry sand.
Limestone powder.

Specific hazards : Downwind personnel must be evacuated.

Special protective equipment for fire-fighters : Use personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : Use chemically protective clothing. Evacuate personnel to safe areas.

Methods for cleaning up : Neutralize with a dilute solution of sodium carbonate. Place in appropriate chemical waste container.

Material Safety Data Sheet

Version 1.0
Revision Date 05/11/2009

Print Date 05/11/2009

Additional advice

: Evacuate area and do not approach spilled product. Reduce vapor with fog or fine water spray. Large releases may require considerable downwind evacuation. If possible, stop flow of product.

7. HANDLING AND STORAGE

Handling

Use only in well-ventilated areas. Avoid breathing vapors and/or aerosols. Avoid contact with skin and eyes. Inexperienced or first time users of product should contact supplier for additional information on the storage, handling and use of this product. Use personal protective equipment. When using, do not eat, drink or smoke.

Storage

Keep away from alkalis.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures

Provide readily accessible eye wash stations and safety showers.
Provide natural or explosion-proof ventilation adequate to ensure concentrations are kept below exposure limits.

Personal protective equipment

- Respiratory protection : Not required for properly ventilated areas.
- Hand protection : Neoprene gloves.
Impervious gloves.
Wear neoprene, polyvinyl chloride [PVC], nitrile, or other acid resistant gloves to prevent contact with hydrofluoric acid.
Wearing a thin inner glove in addition to heavy acid resistant outer glove is recommended.
The breakthrough time of the selected glove(s) must be greater than the intended use period.
- Eye protection : Full face shield with goggles underneath.
- Skin and body protection : Impervious clothing.
Full rubber suit (rain gear).
Rubber or plastic boots.
Slicker Suit.
- Special instructions for protection and hygiene : Keep suitable chemically resistant protective clothing readily available for emergency use. Keep self contained breathing apparatus readily available for emergency use.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Form : Liquid.
- Color : Colorless. Light blue
- Odor : Slight.

Material Safety Data Sheet

Version 1.0
Revision Date 05/11/2009

Print Date 05/11/2009

Relative density : 1.2 (water = 1)
Vapor pressure : 233.08 mmHg
Density : 74.914 lb/ft³ (1.2 g/cm³) at
pH : 1

10. STABILITY AND REACTIVITY

Stability : Stable under normal conditions.

Materials to avoid : Amines.
Incompatible with bases.
Reducing agents.
Acids.
Metals.
Water.
Materials made of glass or ceramic.
May react violently with alkalis.
Zinc.
Brass.
Aluminium.

Hazardous decomposition products : Nitrogen oxides (NO_x).
Gaseous hydrogen fluoride (HF).
Gives off hydrogen by reaction with metals.

11. TOXICOLOGICAL INFORMATION

Acute Health Hazard

Ingestion : Toxic if swallowed.

Inhalation : No data is available on the product itself.

Inhalation - Components
Hydrofluoric acid LC50 (1 h) : 1.0438 mg/l Species : Rat.

Skin. : No data is available on the product itself.

Chronic Health Hazard

Animals exposed to hydrogen fluoride have exhibited kidney, lung, heart and liver damage.

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Aquatic toxicity : Toxic to aquatic organisms. May cause pH changes in aqueous ecological systems.

Toxicity to other organisms : No data available.

Material Safety Data Sheet

Version 1.0
Revision Date 05/11/2009

Print Date 05/11/2009

Persistence and degradability

- Mobility : No data available.
- Bioaccumulation : No data is available on the product itself.
- Bioaccumulation - Components
Hydrofluoric acid : Negligible bioaccumulation potential.

13. DISPOSAL CONSIDERATIONS

- Waste from residues / unused products : Contact supplier if guidance is required.
- Contaminated packaging : Dispose of container and unused contents in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

- Proper shipping name : Corrosive liquids, toxic, n.o.s. (Hydrofluoric acid, Ammonium hydrogendifluoride)
- Class : 8 (8.1)
- UN/ID No. : UN2922
- Packing group : II

IATA

- Proper shipping name : Corrosive liquid, toxic, n.o.s. (Hydrofluoric acid, Ammonium hydrogendifluoride)
- Class : 8 (8.1)
- UN/ID No. : UN2922
- Packing group : II

IMDG

- Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Ammonium hydrogendifluoride)
- Class : 8 (8.1)
- UN/ID No. : UN2922
- Packing group : II

TDG

- Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S. (Hydrofluoric acid, Ammonium hydrogendifluoride)
- Class : 8 (8.1)
- UN/ID No. : UN2922
- Packing group : II

Further information

The transportation information is not intended to convey all specific regulatory data relating to this material. For complete transportation information, contact an Air Products customer service representative.

15. REGULATORY INFORMATION

Material Safety Data Sheet

Version 1.0

Revision Date 05/11/2009

Print Date 05/11/2009

OSHA Hazard Communication Standard (29 CFR 1910.1 200) Hazard Class(es)
Toxic, Corrosive.

Country	Regulatory list	Notification
USA	TSCA	Included on Inventory.
EU	EINECS	Included on EINECS Inventory or polymer substance, monomers Included on EINECS Inventory or no longer polymer.
Canada	DSL	Included on Inventory.
Australia	AICS	Included on Inventory.
Japan	ENCS	Included on Inventory.
South Korea	ECL	Included on Inventory.
China	SEPA	Included on Inventory.
Philippines	PICCS	Included on Inventory.

EPA SARA Title III Section 312 (40 CFR 370) Hazard Classification
Acute Health Hazard

EPA SARA Title III Section 313 (40 CFR 372) Component(s) above 'de minimus' level
None.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)
This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

WHMIS Hazard Classification
Corrosive Material

16. OTHER INFORMATION

NFPA Rating

Health : 3
Fire : 0
Instability : 0

Prepared by : Air Products and Chemicals, Inc. Global EH&S Product Safety Department

For additional information, please visit our Product Stewardship web site at
<http://www.airproducts.com/productstewardship/>

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00866**

GENERATOR INFORMATION

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

SPENT HCL

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

STEEL GALVANIZING

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 D004 D006 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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 _____	acceptable 040716
---	--	---	--	----------------------

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

VOG 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>Hydrochloric Acid</u>	<u>5</u>	<u>1</u>			
<u>Water</u>	<u>95</u>	<u>85</u>			
<u>Iron</u>	<u>7</u>	<u>5</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 Amine	<input checked="" type="checkbox"/>	ppm	Arsenic (As)	D004	<input type="checkbox"/>	<	5	ppm	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm	Barium (Ba)	D005	<input checked="" type="checkbox"/>	<	100	ppm	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm	Cadmium (Cd)	D006	<input type="checkbox"/>	<	1	ppm	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm	Chromium (Cr)	D007	<input type="checkbox"/>	<	5	ppm	11.8 ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm				Lead (Pb)	D008	<input type="checkbox"/>	<	5	ppm	2.8 ppm
Sulfides Total	<input checked="" type="checkbox"/>	ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	<	0.2	ppm	ppm
						Selenium (Se)	D010	<input 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
- NEBMAP 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 UN1789, Waste Hydrochloric Acid Solution, 8, II, D002, D004, D006, D007, D008 Hazard Class 8 UN 1789
- Method of Shipment: Bulk Tanker Van truck Rail Car Drums Totes
- Number of Units to Ship Now: 7 6. Anticipated Volume / Units per Year: up to 80 or One Time
- Special Handling Requirements including PPE: _____

CERTIFICATION STATEMENT

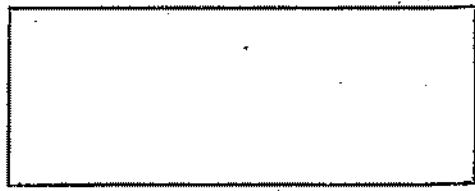
I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained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

- GAA 9 SAMPLING METHOD
- ACID TANK COLLECTION POINT
- SAMPLE NO. _____ 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
_____	_____	_____	_____	_____	_____

Waste Determination

I. Waste Name: Spent HGL Acid Universal

II. Mark the Waste Classification: Non-hazardous Hazardous

III. Waste Description: Spent Hydrochloric Acid from the tanks

IV. Waste Determination Analysis

V. Waste Management Method (How is it managed and disposed, treatment methods, onsite or off site)



Required Attachments

<input checked="" type="checkbox"/>	Waste Profile	EPA Code	
<input checked="" type="checkbox"/>	Analysis TCLP RCRA Metals + Ni & total Zn	Date:	5/26/2015
	Analysis ID #:		10307991004

Conditional Other Attachments

<input checked="" type="checkbox"/>	LDR - only for hazardous waste	
<input type="checkbox"/>	Waste Analysis Plan - onsite treatment only	
<input type="checkbox"/>	MSDS for off spec material only	

Contaminant	ICLRF Limit ppm	W/W		Non-W/W		Analysis Results (mg/L ppm)
		UHC ppm	Limit mg/L	UHC ppm	Limit mg/L	
Arsenic	5.0		1.40		5.0	0.00
Barium	100.0		1.20		21.0	0.00
Cadmium	1.0		0.69		0.11	0.00
Chromium	5.0		2.77		0.60	110.00
Lead	5.0		0.69		0.75	2.80
Mercury	0.2		0.15		0.025	0.00
Selenium	1.0		0.82		5.7	0.00
Silver	5.0		0.43		0.14	0.00
Antimony	N/A		1.00		1.00	
Nickel	N/A		3.98		11.00	101.00
Total Zinc	N/A		N/A		N/A	22800.00
	N/A		N/A		N/A	1.00
	N/A		N/A		N/A	

May be required by landfill
 pH < 2 or > 12.5
 Flash point < 60 C

Cells will self populate after entering analysis results
 Column M
 C=(F-32)/1.8, 60 C = 140 F

Revision Date: 6/12/2012

ANALYTICAL RESULTS

Project: TCLP Metals, Total Zn, Ni, pH

Pace Project No.: 10307991

Sample: Spent Acid - Strip Lab ID: 10307991004 Collected: 05/26/15 14:00 Received: 05/27/15 12:47 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 06/03/15 11:31 Initial pH: 2.51; Final pH: 2.51								
Arsenic	ND	mg/L	2.5	25	06/03/15 16:14	06/04/15 09:37	7440-38-2	
Barium	ND	mg/L	12.5	25	06/03/15 16:14	06/04/15 09:37	7440-39-8	
Cadmium	ND	mg/L	0.38	25	06/03/15 16:14	06/04/15 09:37	7440-43-9	
Chromium	110	mg/L	1.2	25	06/03/15 16:14	06/04/15 09:37	7440-47-3	
Lead	2.8	mg/L	1.2	25	06/03/15 16:14	06/04/15 09:37	7439-92-1	
Selenium	ND	mg/L	1.0	10	06/03/15 16:14	06/04/15 12:16	7782-49-2	
Silver	ND	mg/L	1.2	25	06/03/15 16:14	06/04/15 09:37	7440-22-4	
6010C MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3060								
Nickel	101	mg/kg	8.8	10	06/07/15 11:28	06/08/15 09:44	7440-02-0	
Zinc	22800	mg/kg	44.2	50	06/07/15 11:28	06/08/15 09:59	7440-66-8	
7470A Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 06/03/15 15:11 Initial pH: 2.51; Final pH: 2.51								
Mercury	ND	mg/L	0.0012	1	06/04/15 19:00	06/05/15 14:54	7439-97-6	
9045 pH								
Analytical Method: EPA 9045								
pH at 25 Degrees C	1.0	Std. Units	0.10	1		06/09/15 08:09		E

REPORT OF LABORATORY ANALYSIS

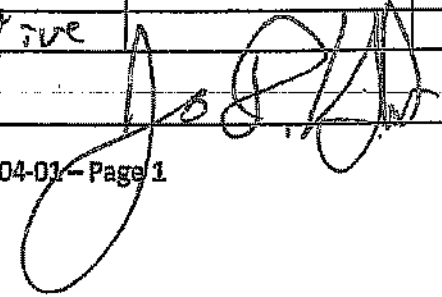
This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/11/16
Receiving ID#	Spent HCL
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/rost

LAB INFORMATION		FIELD BINS ONLY	
WASTE CHARACTERISTICS			
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.)	2.01	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	2200	Carbonate	
Specific Gravity	1.39	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	64°F		
Conductivity	133.6 mS		
% Solids	51.3		
Turbidity	(Yes) No		
Color (visual)	Green		
TSS (%)	0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile

Profile # **00867**

GENERATOR

Name: _____ SEPA ID: _____
 Facility Address: _____ SIC/NAICS Code: _____ State Code: _____
 City: _____ Zip Code: _____
 Contact: _____ F: _____

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

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

GALVANIZING

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 D006 D008**

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other Green	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 6%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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 _____	accepted 041576
---	---	---	---	--------------------

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

Liquid Flash Point: <78°F 73-100°F 101-140°F 141-200°F >200°F None Closed Cup Open Cup

VOC CONCENTRATION - _____ 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
Hydrochloric Acid	40	1			
Water	99	20			
Solids	55	1			

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 Amine	<input checked="" type="checkbox"/>	_____ ppm	Arsenic (As)	D004	<input checked="" type="checkbox"/>	A	5	ppm	_____ ppm
Dioxins	<input type="checkbox"/>	_____ ppm	Pesticides	<input checked="" type="checkbox"/>	_____ ppm	Barium (Ba)	D006	<input checked="" type="checkbox"/>	A	100	ppm	_____ ppm
Cyanides Reactive	<input type="checkbox"/>	_____ ppm	Rodenticides	<input checked="" type="checkbox"/>	_____ ppm	Cadmium (Cd)	D008	<input checked="" type="checkbox"/>	A	1	ppm	_____ ppm
Cyanides Total	<input type="checkbox"/>	_____ ppm	Fungicides	<input checked="" type="checkbox"/>	_____ ppm	Chromium (Cr)	D007	<input checked="" type="checkbox"/>	A	5	ppm	_____ ppm
Sulfides Reactive	<input type="checkbox"/>	_____ ppm				Lead (Pb)	D009	<input checked="" type="checkbox"/>	A	5	ppm	_____ ppm
Sulfides Total	<input checked="" type="checkbox"/>	_____ ppm				Mercury (Hg)	D009	<input checked="" type="checkbox"/>	A	0.2	ppm	_____ ppm
						Selenium (Se)	D010	<input checked="" type="checkbox"/>	A	1	ppm	_____ ppm
						Silver (Ag)	D011	<input checked="" type="checkbox"/>	A	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 RQ, UN1789, Waste Hydrochloric Acid Solution, 8, II, D002, D006, D008 Hazard Class _____ UN 1789
 PG II ERG 157 Hazardous Constituents for "h.o.s." Hydrochloric Acid
- 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.

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.

- GRAB 2
 SAMPLING METHOD _____ COLLECTION POINT _____
- _____
- SAMPLE _____
 WORKER'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:	Date	Time	Received by:	Date	Time
_____	_____	_____	_____	_____	_____

FINGERPRINT FORM

00867

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	4/12/16
Receiving ID#	HCL
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

WASTE CHARACTERISTICS	TEST RESULTS	ANALYSIS
Compatible? (RT#)	(Yes) No	Barium
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium
TOC (ppm)(GC 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	64°F	
Conductivity	169.0 mS	
% Solids	50.6	
Turbidity	(Yes) No	
Color (visual)	Green	
TSS (%)	0.1	
Radiation Screen (as needed)	Negative	
Lab Signature	[Signature]	

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC
 28470 Clark Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile
 Profile # **00872**

GENERATOR INFORMATION

Name: _____ SEPA ID# _____
 Facility Address: _____ SIC/NAICS Code: _____ State Code: _____
 City: _____
 Contact: _____

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"

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

GALVANIZING

USEPA / STATE WASTE IDENTIFICATION

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other green	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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 1.13	<i>accepted by</i> <i>04/15/16</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
Hydrochloric Acid	40	1			
Water	99	20			
SO2	55	1			

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
---------------------------------------	---	-------------------------------	---

Not Present	Concentration	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)	D006 <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
- 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, UN1789, Waste Hydrochloric Acid Solution, B, II, D002 Hazard Class 8 UN 1789
PG II ERG 157 Hazardous Constituents for "n.o.s." Hydrochloric Acid
- Method of Shipment: Bulk Tanker Van 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

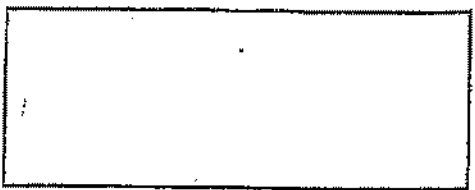
I hereby represent and warrant that I have personally examined and am familiar with the information contained and submitted in this and all attached documents. Based on my inquiry and personal knowledge of those individuals responsible for supplying or obtaining the information, the information contained 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 will be responsible for.

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. GRAB 2. Acid Tank #12

1. SAMPLING METHOD	2. COLLECTION POINT	
3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER		
4. Sample No. <u>6</u> Preservation: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

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

Relinquished by:	Received by:	Date	Time
			

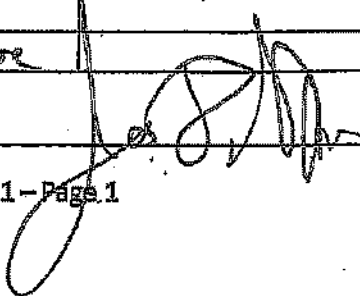
FINGERPRINT FORM

00872

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/13/10
Receiving ID#	Waste Ac-HCl
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	[REDACTED]
Generator	[REDACTED]
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

ANALYSIS INFORMATION		QUALITY CONTROL	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.13	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	65°F		
Conductivity	> 400.0ms		
% Solids	11.8		
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/NAIC: [REDACTED]
 City: [REDACTED] State: [REDACTED]
 Contact: [REDACTED]

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:

SPLAT: H₂SO₄ - SULFURIC

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

GALVANIZING

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

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input checked="" type="checkbox"/> > 5% <u>32</u>	Layers: <input type="checkbox"/> Multi-Layered <input checked="" type="checkbox"/> Bi-Layered <input type="checkbox"/> Single Phase	Specific Gravity: <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>1.40</u>	<i>Accepted!</i> <u>09/16/16</u>
--	--	---	---	-------------------------------------

pH: NA ≤ 2 2 - 4 4 - 8 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>Sulfuric Acid</u>	<u>40</u>	<u>1</u>			%
<u>Water</u>	<u>40</u>	<u>1</u>			%
<u>Solids</u>	<u>58</u>	<u>20</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
Dioxins	<input type="checkbox"/>	Pesticides	<input type="checkbox"/>	Barium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	Rodenticides	<input type="checkbox"/>	Cadmium (Cd)	D008	<input type="checkbox"/>	< 1 ppm
Cyanides Total	<input type="checkbox"/>	Fungicides	<input type="checkbox"/>	Chromium (Cr)	D007	<input type="checkbox"/>	< 5 ppm
Sulfides Reactive	<input type="checkbox"/>			Lead (Pb)	D008	<input type="checkbox"/>	< 5 ppm
Sulfides Total	<input type="checkbox"/>			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 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 _____
3. DOT Shipping Name RQ, UN 2796, Waste Sulfuric Acid, 811, D002 Hazard Class 8 UN 2796
 PG II ERG 157 Hazardous Constituents for "n.o.s." Sulfuric Acid
4. Method of Shipment: Bulk Tanker Tractor Trailer Rail Car Drums Totes
5. Number of Units to Ship Now: 6 6. Anticipated Volume / Units per Year: TANKERS 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: _____

Generator's Sign: _____

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. "IOLC" SULFURIC TANK
 SAMPLING METHOD COLLECTION POINT

3. _____
 SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

4. Sample No. #9 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:	Received by:	Date:	Time:
_____	_____	_____	_____

FINGERPRINT FORM

00875

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/11/10
Receiving ID#	Spent H2SO4
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	
Transporter	
Time In	
Time out	
Received by	J.H.
Sampled by	Client

FINGERPRINT INFORMATION		DATE RECEIVED	
Compatible? (RT#)	(Yes) No	Barium	
PCEs (ppm)(Oil Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	10.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity Top Liquid	1.40	TDS	
Physical Description Liquid: Top/Solid/Bottom	Liquid: Top/Solid/Bottom	Resistivity	
Stream Consistency	Yes (No)	Sulfate	
Oil In Sample	Yes (No)		
Temperature	62°F		
Conductivity	328.6 mS		
% Solids	Top: 42.0 / Bottom: Solid Crystals		
Turbidity	(Yes) No		
Color (visual)	Green		
TSS (%)	21.7		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		

GENERATOR INFORMATION

Name: [REDACTED]
 Facility Address: [REDACTED]
 City: [REDACTED]
 Contact: [REDACTED]

BILLING INFORMATION

SAME AS ABOVE

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

WASTE INFORMATION

Name of Waste/Common Chemical Name:
SPENT HCL Acid
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
GALVANIZING

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: 0160

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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 0.1516
---	--	---	---	----------------------

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>40</u>	<u>1</u>			
<u>Water</u>	<u>99</u>	<u>20</u>			
<u>SLUDGES</u>	<u>55</u>	<u>1</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				
POB	<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	Berium (Ba)	D005	<input type="checkbox"/>	< 100 ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm	Cadmium (Cd)	D008	<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 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 _____
 3. DOT Shipping Name: QUIN 1789, Wash Hydrochloric Acid Solution, 8, II, D002 Hazard Class 8 UN 1789
 PG II ERG 157 Hazardous Constituents for "h.o.s." Hydrochloric Acid
 4. Method of Shipment: Bulk Tanker Van truck Rail Car Drums Totes
 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. 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 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. Totes in warehouse
 SAMPLING METHOD COLLECTION POINT

COLLECTOR'S NAME, TITLE, EMPLOYER: _____

4. Sample No. # 17 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:	Received by:	Date	Time
_____	_____	_____	_____

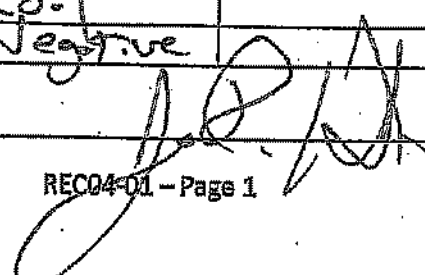
FINGERPRINT FORM

00879

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

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

LAB INFORMATION		ANALYSIS	
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.)	< 0.1	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.20	TDS	
Physical Description:	Liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil In Sample	Yes (No)		
Temperature	65°F		
Conductivity	> 400.0 mS		
% Solids	21.9		
Turbidity	Yes (No)		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

GENERATOR INFORMATION

Name: [REDACTED]
 Facility: [REDACTED]
 City: [REDACTED]
 Contact: [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 STRIP
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):
GALVANIZING

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 D004 D006 D007 D008

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Green</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1% <input type="checkbox"/> 3-5% <input type="checkbox"/> 1-3% <input type="checkbox"/> >5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <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>1.36</u>	acceptable 041516
---	---	---	---	----------------------

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

Liquid Flash Point: <75°F 75-100°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>1</u>			
<u>Water Solids</u>	<u>39</u>	<u>20</u>			
	<u>55</u>	<u>1</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		Present			
PCB	<input checked="" 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)	D006 <input checked="" type="checkbox"/> < 100 ppm
Cyanides Reactive	<input type="checkbox"/> _____ ppm	Rodenticides	<input type="checkbox"/> _____ ppm	Cadmium (Cd)	D008 <input type="checkbox"/> < 1 ppm
Cyanides Total	<input type="checkbox"/> _____ ppm	Fungicides	<input type="checkbox"/> _____ ppm	Chromium (Cr)	D007 <input type="checkbox"/> < 8 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-Possible 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 _____
3. DOT Shipping Name: 8Q, UN 1789, Waste Hydrochloric Acid, 8, II Hazard Class 8 UN 1789
 PG II ERG 157 Hazardous Constituents for "n.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: 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. 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 Sign: _____

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. STRIP TANK

4. Sample No. #14 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	Received by:	Date	Time
_____	_____	_____	_____	_____

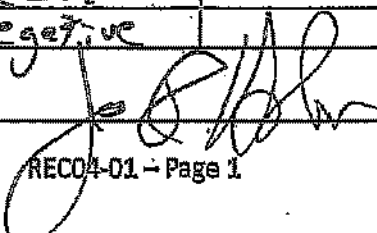
FINGERPRINT FORM

00880

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/14/16
Receiving ID#	Acid Strip
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.M.
Sampled by	Client

ANALYSIS INFORMATION		ANALYSIS INFORMATION	
Compatible? (RT#)	Yes No	Barium	
PCEs (ppm)(Oil Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	> 140	Magnesium	
pH (S.U.)	1.2	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.36	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	66°F		
Conductivity	128.1 mS		
% Solids	47.9		
Turbidity	Yes No		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

Waste Determination

I. Waste Name Spent HCL Acid Universal

II. Mark the Waste Classification Non-hazardous Hazardous

III. Waste Description Spent Hydrochloric Acid from the tanks

IV. Waste Determination Analysis

V. Waste Management Method (How is it managed and disposed, treatment, etc.)

reusable
071516

Required Attachments

Waste Profile	EPA Code	Analysis TCLP RCRA Metals + Ni & total Zn	Date:
<input checked="" type="checkbox"/>	D004	11/17/2015	
<input checked="" type="checkbox"/>	D005	10328645	
Conditional Other Attachments			
<input checked="" type="checkbox"/>	D006		
<input checked="" type="checkbox"/>	D007		
<input type="checkbox"/>	D008		
<input type="checkbox"/>	D009		
<input type="checkbox"/>	D010		
<input type="checkbox"/>	D011		
<input type="checkbox"/>	NA		
<input type="checkbox"/>	NA		
<input type="checkbox"/>	NA		
<input type="checkbox"/>	D002		
<input type="checkbox"/>	D001		

Contaminant	TCLP Limit mg/L		WW UHC Limit ppm, mg/L		NonWW UHC Limit ppm, mg/L		Analysis Results (mg/L ppm)
	mg/L	ppm	ppm	mg/L	ppm	mg/L	
Arsenic	5.0	1.40	5.0	1.40	5.0	0.00	0.00
Barium	100.0	1.20	100.0	1.20	21.0	0.00	0.00
Cadmium	1.0	0.69	1.0	0.69	0.11	2.70	2.70
Chromium	5.0	2.77	5.0	2.77	0.60	305.00	305.00
Lead	5.0	0.69	5.0	0.69	0.75	58.60	58.60
Mercury	0.2	0.15	0.2	0.15	0.025	0.01	0.01
Selenium	1.0	0.82	1.0	0.82	5.7	20.30	20.30
Silver	5.0	0.43	5.0	0.43	0.14	0.00	0.00
Antimony	N/A	1.00	N/A	1.00	1.00	103.00	103.00
Nickel	N/A	3.98	N/A	3.98	N/A	39300.00	39300.00
Total Zinc	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A

C=(F-32)/1.8, 60 C = 140 F

May be required by landfill
pH < 2 or > 12.5
Flash point < 60 C
Cells will self populate after entering analysis results
Column M

Revision Date: 6/12/2012



ANALYTICAL RESULTS

Project:
 Pace Project

Sample: HCl Spent Solution Lab ID: 10328648002 Collected: 11/03/15 08:32 Received: 11/03/15 13:05 Matrix: Solid
 Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010C MET ICP, TCLP								
Analytical Method: EPA 6010C Preparation Method: EPA 3010								
Leachate Method/Date: EPA 1311; 11/05/15 14:30 Initial pH: 1.96; Final pH: 1.96								
Arsenic	ND	mg/L	10.0	100	11/06/15 01:56	11/06/15 13:09	7440-38-2	
Barium	ND	mg/L	50.0	100	11/06/15 01:56	11/06/15 13:09	7440-39-3	
Cadmium	2.7	mg/L	1.5	100	11/06/15 01:56	11/06/15 13:09	7440-43-9	
Chromium	305	mg/L	5.0	100	11/06/15 01:56	11/06/15 13:09	7440-47-3	
Lead	58.6	mg/L	5.0	100	11/06/15 01:56	11/06/15 13:09	7439-92-1	
Selenium	20.3	mg/L	10.0	100	11/06/15 01:56	11/06/15 13:09	7782-49-2	
Silver	ND	mg/L	5.0	100	11/06/15 01:56	11/06/15 13:09	7440-22-4	
6010C MET ICP								
Analytical Method: EPA 6010C Preparation Method: EPA 3050								
Nickel	103	mg/kg	3.5	5	11/12/15 12:11	11/13/15 14:25	7440-02-0	
Zinc	39300	mg/kg	87.4	125	11/12/15 12:11	11/13/15 14:25	7440-66-8	
7470A Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 11/05/15 14:30 Initial pH: 1.96; Final pH: 1.96								
Mercury	0.011	mg/L	0.0060	1	11/06/15 06:45	11/06/15 19:14	7439-97-8	
9045 pH								
Analytical Method: EPA 9045								
pH at 25 Degrees C	ND	Std. Units	0.10	1		11/10/15 16:22		1M,E

REPORT OF LABORATORY ANALYSIS

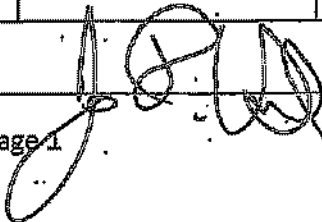
This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	4/23/15
Receiving ID#	B04231503
Manifest# Line:	012232332 JSK
Land Ban Cert Included	<input checked="" type="checkbox"/> Yes No
EGT Approval #	00011
Generator	[REDACTED]
Client	[REDACTED]
Transporter	Terra
Time in	1350
Time out	1614
Received by	J.H.
Sampled by	C.M.

ANALYSIS INFORMATION		ANALYSIS INFORMATION	
Always Submits		Optional	
Compatible? (RT# 1)	<input checked="" type="checkbox"/> 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.)	0.3	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.35	TDS	
Physical Description	Liquid	Resistivity	
Stream Consistency	<input checked="" type="checkbox"/> Yes No	Sulfate	
Oil in Sample	Yes <input checked="" type="checkbox"/> No		
Temperature	54°F		
Conductivity	191.2 uS		
% Solids	46.9		
Turbidity	<input checked="" type="checkbox"/> Yes No		
Color (visual)	Green		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature			

00886
acceptable
of 12/16

GENERATOR'S WASTE PROFILE SHEET
PLEASE PRINT IN INK OR TYPE

Service Agreement on File? YES NO
 Hazardous Non-Hazardous TSCA

Profile Number: _____
Renewal Date: _____

Generator Information

1. Generator Name:	2. SIC Code:
3. Facility Street Address:	Phone:
5. Facility City:	State/Province:
7. Zip/Postal Code:	Generator USEPA/FED ID#:
9. County:	10. State/Province ID#:
11. Customer Name:	12. Customer Phone#:
13. Customer Contact:	14. Customer Fax:
15. Billing Address:	

Same as above

Waste Stream Information Same as above

1. DESCRIPTION
a. Name of Waste: Flushing Liquor
b. Processing Generating Waste: The flushing liquor material was created during final shutdown of a coking operation. The Flushing Liquor is used to flush the lines and tanks of the coking and byproduct operation.

c. Color <u>Clear</u>	d. Strong odor <u>Slight Ammonia Odor</u>	e. Physical state @ 70°F <input type="checkbox"/> Solid <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas <input type="checkbox"/> Sludge <input type="checkbox"/> Other	f. Layers <input checked="" type="checkbox"/> Single Layer <input type="checkbox"/> Multi-Layer	g. Free liquid range to % h. pH: Range 9 to 10.5
--------------------------	--	---	---	--

i. Liquid Flash Point: <73°F 73-99°F 100-139°F 140-199°F ≥ 200°F Not Applicable
j. Chemical Composition (List all constituents [including halogenated organics, debris, and UHC's] present in any concentration and submit representative analysis):

Constituents	Concentration Range	Constituents	Concentration Range
See Attached Analytical			

TOTAL COMPOSITION MUST EQUAL OR EXCEED 100%

k. Oxidizer Pyrophoric Explosive Rad/active
 Carcinogen Infectious Shock Sensitive Water Reactive

l. Does the waste represented by this profile contain any of the carcinogens which require OSHA Notification? (list in Section B.1.) YES NO

m. Does the waste represented by this profile contain dioxins? (list in B.1.) YES NO

n. Does the waste represented by this profile contain asbestos? YES NO
If yes, friable non-friable

o. Does the waste represented by this profile contain benzene? YES NO
If yes, concentration _____ Ppm

p. Is the waste subject to benzene waste operations NESHAP? YES NO
Is the waste subject to RCRA Subpart CC controls? YES NO
If no, does the waste meet the organic LDR Exemption? YES NO
If no, does the waste contain <500 ppmw volatile organic (VO)? YES NO
Volatile organic concentration _____ Ppmw

q. Does the waste contain any Class I or Class II ozone-depleting substance? YES NO

r. Does the waste contain debris? (list in Section B.1.) YES NO

s. Is the waste subject to controls as a Group 1 wastewater or residual under the HON? YES NO
If yes, is it a Table 8 or Table 9 Compound? YES NO

2. Quantity of Waste
Estimated Annual Volume 400,000 Tons Yards Drums Other (specify) Gallons

3. Shipping Information
a. Packaging: Bulk Solid; Type/Size: _____ Bulk Liquid, Type/Size: _____
 Drum; Type/Size: _____ Other: _____
b. Shipping Frequency: Units 6 Per: Month Quarter Year One Time
c. Is this a U.S. Department of Transportation (USDOT) Hazardous Material? (if no, skip d, e and f) Other Day YES NO

GENERATOR'S WASTE PROFILE SHEET
PLEASE PRINT IN INK OR TYPE

d. Reportable Quantity (lbs.; kgs.): _____ e. Hazard Class/ID#: UN1114 (Benzene)
 f. USDOT Shipping Name: Flushing Liquor (D018, D010, D039)
 g. Personal Protective Equipment Requirements: _____
 h. Transporter/Transfer Station: _____

1. Is this a USEPA hazardous waste (40 CFR Part 261)? If the answer is no, skip to 2. YES NO
- a. If yes, identify ALL USEPA listed and characteristic waste code numbers (D,F,K,P,U) D018, D010, D039
- b. If a characteristic hazardous waste, do underlying hazardous constituents (UHCs) apply? (If yes, list in Section B.1.) YES NO
- c. Does this waste contain debris? (If yes, list size and type in Chemical Composition - B.1.) YES NO
2. Is this a state hazardous waste? Identify ALL state hazardous waste codes YES NO
3. Is the waste from a CERCLA (40 CFR 300, Appendix B) or state mandated clean-up? If yes, attach Record of Decision (ROD), 104/106 or 122 order or court order that governs site clean-up for activity. For state mandated clean-up, provide relevant documentation. YES NO
4. Does the waste represented by this waste profile sheet contain radioactive material, or is disposal regulated by the Nuclear Regulatory Commission? YES NO
5. Does the waste represented by this waste profile sheet contain concentrations of Polychlorinated Biphenyls (PCBs) regulated by 40 CFR 761? (If yes, list in Chemical Composition - B.1.) YES NO
- a. If yes, were the PCBs imported into the U.S.? YES NO
6. Do the waste profile sheet and all the attachments contain true and accurate descriptions of the waste material, and has all relevant information within the possession of the Generator regarding known or suspected hazards pertaining to the waste been disclosed to the Contractor? YES NO
7. Will all changes which occur in the character of the waste be identified by the Generator and disclosed to the Contractor prior to providing the waste to the Contractor? YES NO

Check here if a Certificate of Destruction or Disposal is required.

Any sample submitted is representative as defined in 40 CFR 261 - Appendix 1 or by using an equivalent method. I authorize WMI to obtain a sample from any waste shipment for purposes of recertification. If this certification is made by a broker, the undersigned signs as authorized agent of the generator and has confirmed the information contained in this Profile Sheet from information provided by the generator and additional information as it has determined to be reasonably necessary. If approved for management, Contractor has all the necessary information that has been characterized and identified.

Certification Signature: _____
 Name (Type or Print) _____

Check if additional information is attached. Indicate the number of attached pages.

1. Management Method	<input type="checkbox"/> Landfill	<input type="checkbox"/> Non-hazardous Solidification	<input checked="" type="checkbox"/> Bioremediation	<input checked="" type="checkbox"/> Incineration
	<input type="checkbox"/> Hazardous Stabilization	<input type="checkbox"/> Other (Specify)		
2. Proposed Ultimate Management Facility:	_____			
3. Precautions, Special Handling Procedures, or Limitation on Approval	_____			
4. Waste Form:	5. Source:	6. System Type:		
Special Waste Decision:		<input type="checkbox"/> Approved	<input type="checkbox"/> Disapproved	
Salesperson's Signature:		Date:	_____	
Division Approval Signature (Optional):		Date:	_____	
Special Waste Approval's Person Signature		Date:	_____	

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date:	4/15/16
Receiving ID#	Ammonia liquid/A2 St.7k
Manifest# Line:	
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	[REDACTED]
Client	[REDACTED]
Transporter	
Time In	
Time out	
Received by	J.T.
Sampled by	Client

TEST INFORMATION		OTHER TESTS 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.)	12.9	Sodium Chloride	
Cyanides? (mg/L)	< 30	Bicarbonate	
Sulfides? (ppm)	< 200	Carbonate	
Specific Gravity	1.02	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	69°F		
Conductivity	58.4mS		
% Solids	2.5		
Turbidity	Yes (No)		
Color (visual)	lt. Brown		
TSS (%)	< 0.1		
Radiation Screen (as needed)	Negative		
Lab Signature	[Signature]		



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)850-6000

January 27, 2016

[REDACTED]

RE: [REDACTED]

Enclosed are the analytical results for sample(s) received by the laboratory on January 15, 2016. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

The samples were subcontracted to REI Consultants Inc., 225 Airport Industrial Park Road, Beaver, WV 25813 for WAD Cyanide analysis. The results of this analysis are reported on the REI Consultants, Inc. data tables.

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

Sincerely,

David A. Pichette
david.pichette@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



CERTIFICATIONS

Pennsylvania Certification IDs

Georgia Certification #: C040
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
L-A-B DOD-ELAP Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification
Connecticut Certification #: PH-0694
Delaware Certification
Florida/TNI Certification #: E67683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: 90133
Louisiana DHH/TNI Certification #: LA140008
Louisiana DEQ/TNI Certification #: 4088
Maine Certification #: PA00091
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification
Missouri Certification #: 235

Montana Certification #: Cert 0082
Nebraska Certification #: NE-05-29-14
Nevada Certification #: PA014572015-1
New Hampshire/TNI Certification #: 2976
New Jersey/TNI Certification #: PA 051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42708
North Dakota Certification #: R-190
Oregon/TNI Certification #: PA200002
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN2867
Texas/TNI Certification #: T104704188-14-8
Utah/TNI Certification #: PA014572015-5
USDA Soil Permit #: P330-14-00213
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 490198
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 99640
Wisconsin Certification
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

SAMPLE ANALYTE COUNT

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30170694001	Flushing liquor	EPA 8010B	CTS	7	PASI-PA
		EPA 8010B	CTS	7	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 7470A	CTS	1	PASI-PA
		EPA 8270C	DJL	18	PASI-PA
		EPA 8270C	DJL	75	PASI-PA
		EPA 8260B	MAK	14	PASI-PA
		EPA 8260B	JAS	47	PASI-PA
		EPA 1010	BMS	1	PASI-PA
		EPA 1664A	DEH	1	PASI-PA
		SM 2920B	LEP	1	PASI-PA
		SM 2540D	DEH	1	PASI-PA
		SM 4500-CI G	PAS	1	PASI-PA
		SM 4500-S F	DEH	1	PASI-PA
		EPA 350.1	EHW	1	PASI-PA
		EPA 351.2	JWL	1	PASI-PA
		EPA 410.4	JWL	1	PASI-PA
		EPA 420.1	PAS	1	PASI-PA
		SM 4500-CN-E	BMS	1	PASI-PA
		SM 4500-P E	PAS	1	PASI-PA
SW-846 7.3.3.2	PAS	1	PASI-PA		
SW-846 7.3.4.2	PAS	1	PASI-PA		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)860-5900

PROJECT NARRATIVE



Date: January 27, 2016

Flushing liquor (Lab ID: 30170694001)

• 8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 6010B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MPRPH7407

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170738001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1014950)
 - Cadmium
 - Selenium
 - Silver
- MSD (Lab ID: 1014951)
 - Cadmium
 - Selenium
 - Silver

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

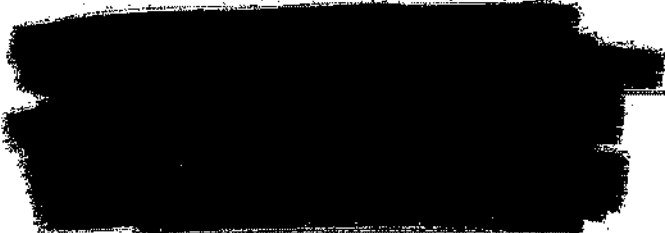
Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 8010B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3005A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

General Information:

1 sample was analyzed for EPA 7470A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 7470A with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 8270C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 8510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibrations:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

QC Batch: OEXT/26907

IS: The internal standard response is below criteria. Results may be biased high.

- MS (Lab ID: 1015012)
 - Terphenyl-d14 (S)
- MSD (Lab ID: 1015013)
 - Terphenyl-d14 (S)

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/26907

SS: Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

- MSD (Lab ID: 1015013)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

PROJECT NARRATIVE



QC Batch: OEXT/26907

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170187012

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MSD (Lab ID: 1015013)
- 1,4-Dichlorobenzene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 8270C. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:

The samples were prepared in accordance with EPA 3510C with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

QC Batch: OEXT/26864

S4: Surrogate recovery not evaluated against control limits due to sample dilution.

- Flushing liquor (Lab ID: 20170694001)
 - 2,4,6-Tribromophenol (S)
 - 2-Fluorobiphenyl (S)
 - 2-Fluorophenol (S)
 - Nitrobenzene-d5 (S)
 - Phenol-d6 (S)
 - Terphenyl-d14 (S)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: OEXT/26864

LQ: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1013266)
 - Benzo(k)fluoranthene

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

PROJECT NARRATIVE



Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: OEXT/26854

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

Analyte Comments:

QC Batch: OEXT/26854

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

• Flushing liquor (Lab ID: 30170694001)

- 1,2,4-Trichlorobenzene
- 1,2-Dichlorobenzene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1-Methylnaphthalene
- 2,4,6-Trichlorophenol
- 2,4-Dichlorophenol
- 2,4-Dimethylphenol
- 2,4-Dinitrophenol
- 2,4-Dinitrotoluene
- 2,4,5-Trichlorophenol
- 2,6-Dinitrotoluene
- 2-Chloronaphthalene
- 2-Chlorophenol
- 2-Methylphenol(p-Cresol)
- 2-Methylnaphthalene
- 2-Nitroaniline
- 2-Nitrophenol
- 3,3'-Dichlorobenzidine
- 3,4-Methylphenol(m&p Cresol)
- 3-Nitroaniline
- 4,6-Dinitro-2-methylphenol
- 4-Bromophenylphenyl ether
- 4-Chloro-3-methylphenol
- 4-Chloroaniline
- 4-Chlorophenylphenyl ether
- 4-Nitroaniline
- 4-Nitrophenol
- Acenaphthene
- Acenaphthylene
- Anthracene
- Azobenzene
- Butylbenzylphthalate

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

PROJECT NARRATIVE



Analyte Comments:

QC Batch: OEXT/26854

1c: A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

- Flushing liquor (Lab ID: 30170694001)
 - Benzole acid
 - Benzyl alcohol
 - Benzo(k)fluoranthene
 - Benzo(g,h,i)perylene
 - Benzo(a)anthracene
 - Benzo(b)fluoranthene
 - Benzo(a)pyrene
 - bis(2-Chloroethoxy)methane
 - bis(2-Chloroethyl) ether
 - bis(2-Chloroisopropyl) ether
 - bis(2-Ethylhexyl)phthalate
 - Carbazole
 - Chrysene
 - Dibenz(a,h)anthracene
 - Dibenzofuran
 - Dimethylphthalate
 - Di-n-butylphthalate
 - Di-n-octylphthalate
 - Diethylphthalate
 - Fluorene
 - Fluoranthene
 - Hexachloro-1,3-butadiene
 - Hexachlorobenzene
 - Hexachlorocyclopentadiene
 - Hexachloroethane
 - Indeno(1,2,3-cd)pyrene
 - Isophorone
 - Naphthalene
 - N-Nitroso-di-n-propylamine
 - Nitrobenzene
 - N-Nitrosodimethylamine
 - N-Nitrosodiphenylamine
 - Phenol
 - Phenanthrene
 - Pentachlorophenol
 - Pyrene

3c: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by high bias.

- BLANK (Lab ID: 1013285)
 - 2,4,6-Tribromophenol (S)
- LCS (Lab ID: 1013286)
 - 2,4,6-Tribromophenol (S)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



Analyte Comments:

QC Batch: OEXT/26854

N2: The lab does not hold TNI accreditation for this parameter.

- BLANK (Lab ID: 1013285)
 - Azobenzene
- Flushing liquor (Lab ID: 30170694001)
 - Azobenzene
- LCS (Lab ID: 1013286)
 - Azobenzene

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/26773

LO: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1016849)
- 2-Butanone (MEK)

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 8260B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Internal Standards:

All internal standards were within QC limits with any exceptions noted below.

Surrogates:

All surrogates were within QC limits with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: MSV/26694

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170531001

R1: RPD value was outside control limits.

- MSD (Lab ID: 1014146)
- Styrene

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Face Analytical Services, Inc..

PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 1010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 1664A. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/81790

A matrix spike/matrix spike duplicate was not performed due to insufficient sample volume.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE

General Information:

1 sample was analyzed for SM 2320B. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/S1728

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170476001

Nf: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1013168)
 - Alkalinity, Total as CaCO₃
- MSD (Lab ID: 1013169)
 - Alkalinity, Total as CaCO₃

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE

General Information:

1 sample was analyzed for SM 2540D. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for SM 4500-Cl G. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

H3: Sample was received or analysis requested beyond the recognized method holding time.

- Flushing liquor (Lab ID: 30170684001)

H6: Analysis initiated outside of the 15 minute EPA required holding time.

- Flushing liquor (Lab ID: 30170684001)

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WET/31712

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170684001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1012429)
 - Chlorine, Total Residual

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WET/31712

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 1012428)
 - Chlorine, Total Residual
- Flushing liquor (Lab ID: 30170684001)
 - Chlorine, Total Residual
- MS (Lab ID: 1012429)
 - Chlorine, Total Residual

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Peace Analytical Services, Inc.



PROJECT NARRATIVE

General Information:

1 sample was analyzed for SM 4500-S F. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE

General Information:

1 sample was analyzed for EPA 350.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..

PROJECT NARRATIVE

General Information:

1 sample was analyzed for EPA 351.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Times:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/22472

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170490001,30170833007

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1015611)
 - Nitrogen, Kjeldahl, Total
- MSD (Lab ID: 1016812)
 - Nitrogen, Kjeldahl, Total

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 410.4. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (Including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE



General Information:

1 sample was analyzed for EPA 420.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE



General Information:

1 sample was analyzed for SM 4600-CN-E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/22426

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170689002

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1013448)
 - Cyanide
- MSD (Lab ID: 1013450)
 - Cyanide

R1: RPD value was outside control limits.

- MSD (Lab ID: 1013450)
 - Cyanide

Additional Comments:

Analyte Comments:

QC Batch: WETA/22426

2c: Analyte detected in ASTM blank. ASTM sample concentration $\geq 10 \times$ blank concentration.

- BLANK (Lab ID: 1013448)
 - Cyanide

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



PROJECT NARRATIVE



General Information:

1 sample was analyzed for SM 4500-P E. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

QC Batch: WETA/22409

A matrix spike and/or matrix spike duplicate (MS/MSD) were performed on the following sample(s): 30170694001

M1: Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

- MS (Lab ID: 1012433)
- Orthophosphate as P

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

Analyte Comments:

QC Batch: WETA/22409

D3: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

- DUP (Lab ID: 1012432)
 - Orthophosphate as P
- Flushing liquor (Lab ID: 30170694001)
 - Orthophosphate as P
- MS (Lab ID: 1012435)
 - Orthophosphate as P

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



PROJECT NARRATIVE



General Information:

1 sample was analyzed for SW-846 7.3.3.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of-custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spikes:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



00086

Pace Analytical Services, Inc.
1638 Roseytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)880-8600

PROJECT NARRATIVE



General Information:

1 sample was analyzed for SW-846 7.3.4.2. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):

All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:

All criteria were within method requirements with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:

All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



ANALYTICAL RESULTS

Samples: Flushing liquor Lab ID: 30170694001 Collected: 01/14/16 14:00 Received: 01/15/16 18:20 Matrix: Water
 Comments: •01/16/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.
 •8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP, TCLP								
Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Leachate Method/Date: EPA 1311; 01/21/16 16:00 Initial pH: 8.76; Final pH: 8.94								
Arsenic	ND	mg/L	0.050	1	01/22/16 14:20	01/25/16 12:08	7440-38-2	
Barium	ND	mg/L	1.0	1	01/22/16 14:20	01/25/16 12:08	7440-39-3	
Cadmium	ND	mg/L	0.050	1	01/22/16 14:20	01/25/16 12:08	7440-43-8	
Chromium	ND	mg/L	0.050	1	01/22/16 14:20	01/25/16 12:08	7440-47-3	
Lead	ND	mg/L	0.050	1	01/22/16 14:20	01/25/16 12:08	7439-92-1	
Selenium	1.0	mg/L	0.10	1	01/22/16 14:20	01/25/16 12:08	7782-49-2	
Silver	ND	mg/L	0.050	1	01/22/16 14:20	01/25/16 12:08	7440-22-4	
6010 MET ICP								
Analytical Method: EPA 6010B Preparation Method: EPA 3005A								
Arsenic	8.3	ug/L	5.0	1	01/20/16 13:00	01/21/16 11:36	7440-38-2	
Barium	26.1	ug/L	10.0	1	01/20/16 13:00	01/21/16 11:36	7440-39-3	
Cadmium	ND	ug/L	3.0	1	01/20/16 13:00	01/21/16 11:36	7440-43-8	
Chromium	5.3	ug/L	5.0	1	01/20/16 13:00	01/21/16 11:36	7440-47-3	
Lead	ND	ug/L	5.0	1	01/20/16 13:00	01/21/16 11:36	7439-92-1	
Selenium	200	ug/L	8.0	1	01/20/16 13:00	01/21/16 11:36	7782-49-2	
Silver	ND	ug/L	5.0	1	01/20/16 13:00	01/21/16 11:36	7440-22-4	
7470 Mercury, TCLP								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Leachate Method/Date: EPA 1311; 01/21/16 16:00 Initial pH: 8.76; Final pH: 8.94								
Mercury	1.1	ug/L	1.0	1	01/22/16 11:52	01/25/16 09:52	7439-97-8	
7470 Mercury								
Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	ug/L	0.20	1	01/22/16 11:52	01/25/16 10:22	7439-97-8	
8270 MSSV TCLP Sep Funnel								
Analytical Method: EPA 8270C Preparation Method: EPA 3610C								
1,4-Dichlorobenzene	ND	ug/L	500	1	01/22/16 13:45	01/25/16 09:45	106-46-7	
2,4-Dinitrotoluene	ND	ug/L	100	1	01/22/16 13:45	01/25/16 09:45	121-14-2	
Hexachloro-1,3-butadiene	ND	ug/L	100	1	01/22/16 13:45	01/25/16 09:45	67-68-3	
Hexachlorobenzene	ND	ug/L	100	1	01/22/16 13:45	01/25/16 09:45	118-74-1	
Hexachloroethane	ND	ug/L	500	1	01/22/16 13:45	01/25/16 09:45	67-72-1	
2-Methylphenol (o-Cresol)	4930	ug/L	10.0	10	01/22/16 13:45	01/25/16 12:32	95-48-7	
3&4-Methylphenol (m&p Cresol)	17200	ug/L	20.0	10	01/22/16 13:45	01/25/16 12:32		
Nitrobenzene	ND	ug/L	100	1	01/22/16 13:45	01/25/16 09:45	98-95-3	
Pentachlorophenol	ND	ug/L	5000	1	01/22/16 13:45	01/25/16 09:45	67-86-5	
Pyridine	15200	ug/L	5000	10	01/22/16 13:45	01/25/16 12:32	110-88-1	
2,4,5-Trichlorophenol	ND	ug/L	5000	1	01/22/16 13:45	01/25/16 09:45	95-95-4	
2,4,6-Trichlorophenol	ND	ug/L	100	1	01/22/16 13:45	01/25/16 09:45	88-06-2	
Surrogates								
Nitrobenzene-d6 (S)	85	%	22-128	1	01/22/16 13:45	01/25/16 09:45	4185-60-0	
2-Fluorobiphenyl (S)	85	%	34-113	1	01/22/16 13:45	01/25/16 09:45	321-60-8	
Terphenyl-d14 (S)	101	%	35-150	1	01/22/16 13:45	01/25/16 09:45	1718-51-0	
Phenol-d6 (S)	38	%	14-49	1	01/22/16 13:45	01/25/16 09:45	13127-98-3	
2-Fluorophenol (S)	63	%	19-70	1	01/22/16 13:45	01/25/16 09:45	307-12-4	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



ANALYTICAL RESULTS

Sample: Flushing liquor Lab ID: 30170094001 Collected: 01/14/16 14:00 Received: 01/15/16 18:20 Matrix: Water
 Comments: • 01/15/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.
 • 8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interferences.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV TCLP Sep Funnel		Analytical Method: EPA 8270C Preparation Method: EPA 3510C						
Surrogates								
2,4,6-Tribromophenol (S)	102	%	24-194	1	01/23/16 13:45	01/25/16 09:45	118-79-6	
8270 MSSV Semivolatile Organic		Analytical Method: EPA 8270C Preparation Method: EPA 3510C						
Acanaphthene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	83-32-9	1c,M5
Acanaphthylene	403	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	208-96-8	1c,M5
Anthracene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	120-12-7	1c,M5
Azobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	103-33-9	1c,M5, N2
Benzo(a)anthracene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	56-55-3	1c,M5
Benzo(a)pyrene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	50-32-8	1c,M5
Benzo(b)fluoranthene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	205-99-2	1c,M5
Benzo(g,h,i)perylene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	191-24-2	1c,M5
Benzo(k)fluoranthene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	207-08-9	1c,L3, M5
Benzoic acid	ND	ug/L	1260	50	01/20/16 08:50	01/25/16 08:12	65-85-0	1c,M5
Benzyl alcohol	357	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	100-51-6	1c,M5
4-Bromophenylphenyl ether	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	101-55-3	1c,M5
Butylbenzylphthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	85-68-7	1c,M5
Carbazole	608	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	86-74-8	1c,M5
4-Chloro-3-methylphenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	59-50-7	1c,M5
4-Chloroaniline	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	106-47-8	1c,M5
bis(2-Chloroethoxy)methane	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	111-81-1	1c,M5
bis(2-Chloroethyl) ether	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	111-44-4	1c,M5
bis(2-Chloroisopropyl) ether	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	108-60-1	1c,M5
2-Chloronaphthalene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	91-56-7	1c,M5
2-Chlorophenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	95-57-8	1c,M5
4-Chlorophenylphenyl ether	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	7005-72-9	1c,M5
Chrysene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	218-01-9	1c,M5
Dibenz(a,h)anthracene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	53-70-3	1c,M5
Dibenzofuran	71.1	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	132-84-9	1c,M5
1,2-Dichlorobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	85-50-1	1c,M5
1,3-Dichlorobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	541-73-1	1c,M5
1,4-Dichlorobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	106-48-7	1c,M5
3,3'-Dichlorobenzidine	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	91-94-1	1c,M5
2,4-Dichlorophenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	120-83-2	1c,M5
Diethylphthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	84-66-2	1c,M5
2,4-Dimethylphenol	801	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	108-67-9	1c,M5
Dimethylphthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	131-11-3	1c,M5
Di-n-butylphthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	84-74-2	1c,M5
4,6-Dinitro-2-methylphenol	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	634-52-1	1c,M5
2,4-Dinitrophenol	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	51-25-5	1c,M5
2,4-Dinitrotoluene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	121-14-2	1c,M5
2,6-Dinitrotoluene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	606-20-2	1c,M5
Di-n-octylphthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	117-84-0	1c,M5

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Face Analytical Services, Inc.



ANALYTICAL RESULTS

Sample: Flushing liquor Lab ID: 30170694801 Collected: 01/14/16 14:00 Received: 01/15/16 18:20 Matrix: Water
 Comments: • 01/15/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.
 • 8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV Semivolatile Organic Analytical Method: EPA 8270C Preparation Method: EPA 3510C								
Bis(2-Ethylhexyl)phthalate	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	117-81-7	1c,M5
Fluoranthene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	206-44-0	1c,M5
Fluorene	65.1	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	86-73-7	1c,M5
Hexachloro-1,3-butadiene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	87-68-3	1c,M5
Hexachlorobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	118-74-1	1c,M5
Hexachlorocyclopentadiene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	77-47-4	1c,M5
Hexachloroethane	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	67-72-1	1c,M5
Indeno(1,2,3-cd)pyrene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	193-39-5	1c,M5
Isophorone	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	78-59-1	1c,M5
1-Methylnaphthalene	63.8	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	91-57-6	1c,M5
2-Methylnaphthalene	88.1	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	91-57-6	1c,M5
2-Methylphenol(o-Cresol)	3520	ug/L	503	500	01/20/16 08:50	01/25/16 11:55	95-48-7	1c,M5
3&4-Methylphenol(m&p Cresol)	13800	ug/L	1010	500	01/20/16 08:50	01/25/16 11:55		1c,M5
Naphthalene	8980	ug/L	503	500	01/20/16 08:50	01/25/16 11:55	91-20-3	1c,M5
2-Nitroaniline	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	88-74-4	1c,M5
3-Nitroaniline	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	99-09-2	1c,M5
4-Nitroaniline	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	100-01-8	1c,M5
Nitrobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	98-95-3	1c,M5
2-Nitrophenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	88-75-5	1c,M5
4-Nitrophenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	100-02-7	1c,M5
N-Nitrosodimethylamine	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	62-75-9	1c,M5
N-Nitroso-di-n-propylamine	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	621-64-7	1c,M5
N-Nitrosodiphenylamine	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	88-30-6	1c,M5
Pentachlorophenol	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	87-88-5	1c,M5
Phenanthrene	103	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	85-01-8	1c,M5
Phenol	26500	ug/L	8030	5000	01/20/16 08:50	01/25/16 12:50	108-95-2	1c,M5
Pyrene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	129-08-0	1c,M5
1,2,4-Trichlorobenzene	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	120-82-1	1c,M5
2,4,6-Trichlorophenol	ND	ug/L	126	50	01/20/16 08:50	01/25/16 08:12	95-95-4	1c,M5
2,4,6-Trichlorophenol	ND	ug/L	50.3	50	01/20/16 08:50	01/25/16 08:12	88-06-2	1c,M5
Surrogates								
Nitrobenzene-d5 (S)	0	%	22-128	50	01/20/16 08:50	01/25/16 08:12	4165-60-0	M5,S4
2-Fluorobiphenyl (S)	0	%	84-113	50	01/20/16 08:50	01/25/16 08:12	321-60-8	M5,S4
Terphenyl-d14 (S)	0	%	35-150	50	01/20/16 08:50	01/25/16 08:12	1718-51-0	M5,S4
Phenol-d6 (S)	0	%	14-49	50	01/20/16 08:50	01/25/16 08:12	13127-88-3	M5,S4
2-Fluorophenol (S)	0	%	18-70	50	01/20/16 08:50	01/25/16 08:12	367-12-4	M5,S4
2,4,6-Tribromophenol (S)	0	%	34-134	50	01/20/16 08:50	01/25/16 08:12	118-79-8	M5,S4

8260B MSV TCLP

Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 01/24/16 17:30

Benzene	1000	ug/L	50.0	10		01/27/16 14:40	71-43-2	
2-Butanone (MEK)	ND	ug/L	5000	10		01/27/16 14:40	78-93-3	L2
Carbon tetrachloride	ND	ug/L	50.0	10		01/27/16 14:40	56-23-5	
Chlorobenzene	ND	ug/L	1000	10		01/27/16 14:40	108-90-7	
Chloroform	ND	ug/L	500	10		01/27/16 14:40	67-68-3	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



ANALYTICAL RESULTS



Sample: **Flushing liquid** Lab ID: **30170694001** Collected: **01/14/16 14:00** Received: **01/15/16 18:20** Matrix: **Water**
 Comments: ***01/16/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.**
***8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.**

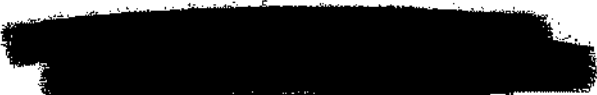
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV TCLP								
Analytical Method: EPA 8260B Leachate Method/Date: EPA 1311; 01/24/16 17:30								
1,2-Dichloroethane	ND	ug/L	50.0	10		01/27/16 14:40	107-08-2	
1,1-Dichloroethene	ND	ug/L	50.0	10		01/27/16 14:40	75-35-4	
Tetrachloroethene	ND	ug/L	50.0	10		01/27/16 14:40	127-18-4	
Trichloroethene	ND	ug/L	50.0	10		01/27/16 14:40	79-01-6	
Vinyl chloride	ND	ug/L	50.0	10		01/27/16 14:40	75-01-4	
Surrogates								
1,2-Dichloroethane-d4 (S)	109	%	77-128	10		01/27/16 14:40	17060-07-0	
Toluene-d8 (S)	101	%	84-116	10		01/27/16 14:40	2037-26-6	
4-Bromofluorobenzene (S)	97	%	81-119	10		01/27/16 14:40	460-00-4	
Dibromofluoromethane (S)	102	%	70-130	10		01/27/16 14:40	1868-83-7	
8260B MSV								
Analytical Method: EPA 8260B								
Acetone	134	ug/L	100	10		01/21/16 21:40	67-64-1	
Benzene	3660	ug/L	10.0	10		01/21/16 21:40	71-43-2	
Bromochloromethane	ND	ug/L	10.0	10		01/21/16 21:40	74-97-5	
Bromodichloromethane	ND	ug/L	10.0	10		01/21/16 21:40	75-27-4	
Bromoform	ND	ug/L	10.0	10		01/21/16 21:40	75-25-2	
Bromomethane	ND	ug/L	10.0	10		01/21/16 21:40	74-83-9	
2-Butanone (MEK)	ND	ug/L	100	10		01/21/16 21:40	78-93-3	
Carbon disulfide	186	ug/L	10.0	10		01/21/16 21:40	76-15-0	
Carbon tetrachloride	ND	ug/L	10.0	10		01/21/16 21:40	56-23-5	
Chlorobenzene	ND	ug/L	10.0	10		01/21/16 21:40	108-90-7	
Chloroethane	ND	ug/L	10.0	10		01/21/16 21:40	78-00-3	
Chloroform	ND	ug/L	10.0	10		01/21/16 21:40	67-68-3	
Chloromethane	ND	ug/L	10.0	10		01/21/16 21:40	74-87-3	
Dibromochloromethane	ND	ug/L	10.0	10		01/21/16 21:40	124-48-1	
1,2-Dichlorobenzene	ND	ug/L	10.0	10		01/21/16 21:40	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	10		01/21/16 21:40	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	10		01/21/16 21:40	106-48-7	
1,1-Dichloroethane	ND	ug/L	10.0	10		01/21/16 21:40	75-34-3	
1,2-Dichloroethane	ND	ug/L	10.0	10		01/21/16 21:40	107-06-2	
1,2-Dichloroethane (Total)	ND	ug/L	20.0	10		01/21/16 21:40	640-69-0	
1,1-Dichloroethene	ND	ug/L	10.0	10		01/21/16 21:40	75-35-4	
cis-1,2-Dichloroethene	ND	ug/L	10.0	10		01/21/16 21:40	156-59-2	
trans-1,2-Dichloroethene	ND	ug/L	10.0	10		01/21/16 21:40	156-60-6	
1,2-Dichloropropane	ND	ug/L	10.0	10		01/21/16 21:40	78-87-5	
cis-1,3-Dichloropropene	ND	ug/L	10.0	10		01/21/16 21:40	10061-01-5	
trans-1,3-Dichloropropene	ND	ug/L	10.0	10		01/21/16 21:40	10061-02-6	
Ethylbenzene	ND	ug/L	10.0	10		01/21/16 21:40	100-41-4	
2-Hexanone	ND	ug/L	100	10		01/21/16 21:40	691-78-6	
Methylene Chloride	ND	ug/L	10.0	10		01/21/16 21:40	76-09-2	
4-Methyl-2-pentanone (MIBK)	ND	ug/L	100	10		01/21/16 21:40	108-10-1	
Methyl-tert-butyl ether	ND	ug/L	10.0	10		01/21/16 21:40	1634-04-4	
Styrene	86.2	ug/L	10.0	10		01/21/16 21:40	100-42-5	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



ANALYTICAL RESULTS



Sample: Flushing liquor Lab ID: 30170694001 Collected: 01/14/16 14:00 Received: 01/15/16 18:20 Matrix: Water
 Comments: • 01/15/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.
 • 8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV		Analytical Method: EPA 8260B						
1,1,2,2-Tetrachloroethane	ND	ug/L	10.0	10		01/21/16 21:40	79-34-5	
Tetrachloroethene	ND	ug/L	10.0	10		01/21/16 21:40	127-18-4	
Toluene	290	ug/L	10.0	10		01/21/16 21:40	108-88-3	
1,2,4-Trichlorobenzene	ND	ug/L	10.0	10		01/21/16 21:40	120-82-1	
1,1,1-Trichloroethane	ND	ug/L	10.0	10		01/21/16 21:40	71-55-6	
1,1,2-Trichloroethane	ND	ug/L	10.0	10		01/21/16 21:40	79-00-6	
Trichloroethene	ND	ug/L	10.0	10		01/21/16 21:40	79-01-6	
Vinyl chloride	ND	ug/L	10.0	10		01/21/16 21:40	75-01-4	
Xylene (Total)	46.3	ug/L	30.0	10		01/21/16 21:40	1330-20-7	
m&p-Xylene	34.6	ug/L	20.0	10		01/21/16 21:40	179601-23-1	
o-Xylene	11.7	ug/L	10.0	10		01/21/16 21:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	104	%	81-119	10		01/21/16 21:40	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-126	10		01/21/16 21:40	17060-07-0	
Toluene-d8 (S)	98	%	84-115	10		01/21/16 21:40	2037-26-5	
Dibromofluoromethane (S)	104	%	70-130	10		01/21/16 21:40	1865-53-7	
1010 Flashpoint,Closed Cup		Analytical Method: EPA 1010						
Flashpoint	>200	deg F	60.0	1		01/25/16 16:08		
HEM, Oil and Grease		Analytical Method: EPA 1664A						
Oil and Grease	ND	mg/L	9.5	1		01/22/16 21:00		M5
2320B Alkalinity		Analytical Method: SM 2320B						
Alkalinity, Total as CaCO3	130	mg/L	10.0	1		01/19/16 17:50		
2540D Total Suspended Solids		Analytical Method: SM 2540D						
Total Suspended Solids	5.0	mg/L	4.0	1		01/19/16 19:00		
4500CL G Chlorine, Residual		Analytical Method: SM 4500-Cl G						
Chlorine, Total Residual	ND	mg/L	1.0	1		01/15/16 20:00	7782-50-5	D3,H3, H6,M1
4500S2F Sulfide, Iodometric		Analytical Method: SM 4500-S F						
Sulfide	118	mg/L	10.0	1		01/20/16 15:30	13496-25-8	
350.1 Ammonia		Analytical Method: EPA 350.1						
Nitrogen, Ammonia	3460	mg/L	40.0	400		01/20/16 09:33	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	3530	mg/L	500	10		01/25/16 15:13	7727-37-9	

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



ANALYTICAL RESULTS



Sample: Flushing liquor Lab ID: 30170694001 Collected: 01/14/16 14:00 Received: 01/15/16 18:20 Matrix: Water

Comments: • 01/15/16 - Added 6ml HNO3 to Metals bottle prior to analysis. pH <2. Added 6ml H2SO4 to Nutrient bottle prior to analysis. pH <2.
 • 8270 W: Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
410.4 COD	Analytical Method: EPA 410.4							
Chemical Oxygen Demand	2200	mg/L	500	20		01/20/16 09:25		
Phenolics, Total Recoverable	Analytical Method: EPA 420.1							
Phenol	46.4	mg/L	2.5	1		01/20/16 17:55	108-95-2	
4500CNE Cyanide, Total	Analytical Method: SM 4500-CN-E							
Cyanide	ND	mg/L	0.010	1		01/20/16 23:00	57-12-5	
4500PE Ortho Phosphorus	Analytical Method: SM 4500-P E							
Orthophosphate as P	ND	mg/L	0.80	1		01/15/16 18:30		D3,M1
733C Reactive Cyanide	Analytical Method: SW-846 7.3.3.2							
Cyanide, Reactive	0.045	mg/L	0.010	1		01/20/16 00:38		
734S Reactive Sulfide	Analytical Method: SW-846 7.3.4.2							
Sulfide, Reactive	2.0	mg/L	1.0	1		01/19/16 19:10		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1888 Rossetown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL DATA



QC Batch: **MERP7297** Analysis Method: **EPA 7470A**
 QC Batch Method: **EPA 7470A** Analysis Description: **7470 Mercury TCLP**
 Associated Lab Samples: **30170694001**

METHOD BLANK: **1014786** Matrix: **Water**
 Associated Lab Samples: **30170694001**

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	1.0	01/25/16 09:31	

LABORATORY CONTROL SAMPLE: **1014789**

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	.95J	95	85-115	

MATRIX SPIKE SAMPLE: **1014791**

Parameter	Units	30170738001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.4	94	80-120	

SAMPLE DUPLICATE: **1014790**

Parameter	Units	30170738001 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1658 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL DATA



QC Batch: MERP7206 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 30170694001

METHOD BLANK: 1014804 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	0.20	01/25/16 09:31	

LABORATORY CONTROL SAMPLE: 1014807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	1	0.95	95	85-115	

MATRIX SPIKE SAMPLE: 1014809

Parameter	Units	30170906003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	ND	2.5	2.5	101	80-120	

SAMPLE DUPLICATE: 1014808

Parameter	Units	30170906003 Result	Dup Result	RPD	Qualifiers
Mercury	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA



QC Batch: MPRP47407 Analysis Method: EPA 8010B
 QC Batch Method: EPA 3005A Analysis Description: 8010 MET TCLP
 Associated Lab Samples: 30170694001

METHOD BLANK: 1014947 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.050	01/25/16 11:33	
Barium	mg/L	ND	1.0	01/25/16 11:33	
Cadmium	mg/L	ND	0.050	01/25/16 11:33	
Chromium	mg/L	0.069	0.050	01/25/16 11:33	
Lead	mg/L	ND	0.050	01/25/16 11:33	
Selenium	mg/L	ND	0.10	01/25/16 11:33	
Silver	mg/L	ND	0.050	01/25/16 11:33	

LABORATORY CONTROL SAMPLE: 1014946

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	.5	0.49	99	80-120	
Barium	mg/L	.5	.521	104	80-120	
Cadmium	mg/L	.5	0.52	103	80-120	
Chromium	mg/L	.5	0.51	103	80-120	
Lead	mg/L	.5	0.50	100	80-120	
Selenium	mg/L	.5	0.51	103	80-120	
Silver	mg/L	.25	0.26	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014950 1014951

Parameter	Units	30170738001		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Spike Conc.	Spike Conc.	Result					
Arsenic	mg/L	ND	.5	.5	0.51	0.50	120	119	75-125	1
Barium	mg/L	ND	.5	.5	1.2	1.2	110	109	75-125	1
Cadmium	mg/L	ND	.5	.5	0.63	0.63	126	126	75-125	0 M1
Chromium	mg/L	ND	.5	.5	0.49	0.48	97	96	75-125	1
Lead	mg/L	ND	.5	.5	0.49	0.49	98	98	75-125	1
Selenium	mg/L	ND	.5	.5	0.66	0.66	127	127	75-125	0 M1
Silver	mg/L	ND	.25	.25	0.34	0.34	136	134	75-125	2 M1

SAMPLE DUPLICATE: 1014949

Parameter	Units	30170738001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/L	ND	ND		
Barium	mg/L	ND	.67J		
Cadmium	mg/L	ND	.00068J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

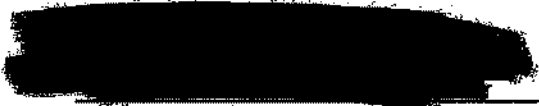
REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
1636 Roseytown Road - Suites 2,3,4
Greensburg, PA 15801
(724)863-5600

QUALITY CONTROL DATA



SAMPLE DUPLICATE: 1014949

Parameter	Units	30170738001 Result	Dup Result	RPD	Qualifiers
Chromium	mg/L	ND	.0011J		
Lead	mg/L	ND	ND		
Selenium	mg/L	ND	.018J		
Silver	mg/L	ND	.00081J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA



QC Batch Method: EPA 3005A
 Associated Lab Samples: 30170694001
 Analysis Method: EPA 6010B
 Analysis Description: 6010 MET

METHOD BLANK: 1013880 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	01/21/16 10:33	
Barium	ug/L	ND	10.0	01/21/16 10:33	
Cadmium	ug/L	ND	3.0	01/21/16 10:33	
Chromium	ug/L	ND	5.0	01/21/16 10:33	
Lead	ug/L	ND	5.0	01/21/16 10:33	
Selenium	ug/L	ND	8.0	01/21/16 10:33	
Silver	ug/L	ND	6.0	01/21/16 10:33	

LABORATORY CONTROL SAMPLE: 1013881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	514	103	80-120	
Barium	ug/L	500	531	106	80-120	
Cadmium	ug/L	500	539	108	80-120	
Chromium	ug/L	500	542	108	80-120	
Lead	ug/L	500	528	106	80-120	
Selenium	ug/L	500	542	108	80-120	
Silver	ug/L	250	271	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1013883 1013884

Parameter	Units	30170644001		MSD		MS		MSD		% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result	% Rec	% Rec			
Arsenic	ug/L	ND	500	500	541	541	108	108	75-125	0		
Barium	ug/L	30.6	500	500	570	564	108	107	75-125	1		
Cadmium	ug/L	ND	500	500	556	556	111	111	75-125	0		
Chromium	ug/L	ND	500	500	535	534	107	107	75-125	0		
Lead	ug/L	ND	500	500	543	550	108	110	75-125	1		
Selenium	ug/L	ND	500	500	565	566	112	112	75-125	0		
Silver	ug/L	ND	250	250	279	276	112	110	75-125	1		

MATRIX SPIKE SAMPLE: 1013886

Parameter	Units	30170640001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	ND	500	528	106	75-125	
Barium	ug/L	23.2	500	550	106	75-125	
Cadmium	ug/L	ND	500	542	108	75-125	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



MATRIX SPIKE SAMPLE: 1013686

Parameter	Units	30170646001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	ND	500	531	106	75-125	
Lead	ug/L	ND	500	538	108	75-125	
Selenium	ug/L	ND	500	551	110	75-125	
Silver	ug/L	ND	250	272	109	75-125	

SAMPLE DUPLICATE: 1013682

Parameter	Units	30170644001 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	30.6	29.2	5	
Cadmium	ug/L	ND	ND		
Chromium	ug/L	ND	1.5J		
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	5.8J		
Silver	ug/L	ND	ND		

SAMPLE DUPLICATE: 1013685

Parameter	Units	30170646001 Result	Dup Result	RPD	Qualifiers
Arsenic	ug/L	ND	ND		
Barium	ug/L	23.2	23.7	2	
Cadmium	ug/L	ND	.8J		
Chromium	ug/L	ND	1.3J		
Lead	ug/L	ND	ND		
Selenium	ug/L	ND	ND		
Silver	ug/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1638 Roseydown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-5900

QUALITY CONTROL DATA



MSV Batch: MSV/26773 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV TCLP
 Associated Lab Samples: 30170894001

LABORATORY CONTROL SAMPLE: 1016849

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limite	Qualifiers
1,1-Dichloroethene	ug/L	20	15.5	78	59-133	
1,2-Dichloroethane	ug/L	20	16.2	81	66-123	
2-Butanone (MEK)	ug/L	20	9J	45	57-126 LO	
Benzene	ug/L	20	16.9	85	69-115	
Carbon tetrachloride	ug/L	20	16.6	83	65-138	
Chlorobenzene	ug/L	20	17.1J	86	69-120	
Chloroform	ug/L	20	16.4J	82	67-123	
Tetrachloroethene	ug/L	20	17.2	86	62-122	
Trichloroethene	ug/L	20	17.6	88	61-125	
Vinyl chloride	ug/L	20	14.8	74	58-127	
1,2-Dichloroethane-d4 (S)	%			106	77-126	
4-Bromofluorobenzene (S)	%			99	81-110	
Dibromofluoromethane (S)	%			104	70-130	
Toluene-d8 (S)	%			96	84-115	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: MSV/26694 Analysis Method: EPA 8260B
 QC Batch Method: EPA 8260B Analysis Description: 8260B MSV
 Associated Lab Samples: 30170694001

METHOD BLANK: 1014143 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	1.0	01/21/16 13:24	
1,1,2,2-Tetrachloroethane	ug/L	ND	1.0	01/21/16 13:24	
1,1,2-Trichloroethane	ug/L	ND	1.0	01/21/16 13:24	
1,1-Dichloroethane	ug/L	ND	1.0	01/21/16 13:24	
1,1-Dichloroethene	ug/L	ND	1.0	01/21/16 13:24	
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/21/16 13:24	
1,2-Dichlorobenzene	ug/L	ND	1.0	01/21/16 13:24	
1,2-Dichloroethane	ug/L	ND	1.0	01/21/16 13:24	
1,2-Dichloropropane	ug/L	ND	1.0	01/21/16 13:24	
1,3-Dichlorobenzene	ug/L	ND	1.0	01/21/16 13:24	
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/16 13:24	
2-Butanone (MEK)	ug/L	ND	10.0	01/21/16 13:24	
2-Hexanone	ug/L	ND	10.0	01/21/16 13:24	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	10.0	01/21/16 13:24	
Acetone	ug/L	ND	10.0	01/21/16 13:24	
Benzene	ug/L	ND	1.0	01/21/16 13:24	
Bromochloromethane	ug/L	ND	1.0	01/21/16 13:24	
Bromodichloromethane	ug/L	ND	1.0	01/21/16 13:24	
Bromoform	ug/L	ND	1.0	01/21/16 13:24	
Bromomethane	ug/L	ND	1.0	01/21/16 13:24	
Carbon disulfide	ug/L	ND	1.0	01/21/16 13:24	
Carbon tetrachloride	ug/L	ND	1.0	01/21/16 13:24	
Chlorobenzene	ug/L	ND	1.0	01/21/16 13:24	
Chloroethane	ug/L	ND	1.0	01/21/16 13:24	
Chloroform	ug/L	ND	1.0	01/21/16 13:24	
Chloromethane	ug/L	ND	1.0	01/21/16 13:24	
cis-1,2-Dichloroethene	ug/L	ND	1.0	01/21/16 13:24	
cis-1,3-Dichloropropene	ug/L	ND	1.0	01/21/16 13:24	
Dibromochloromethane	ug/L	ND	1.0	01/21/16 13:24	
Ethylbenzene	ug/L	ND	1.0	01/21/16 13:24	
m,p-Xylene	ug/L	ND	2.0	01/21/16 13:24	
Methyl-tert-butyl ether	ug/L	ND	1.0	01/21/16 13:24	
Methylene Chloride	ug/L	ND	1.0	01/21/16 13:24	
o-Xylene	ug/L	ND	1.0	01/21/16 13:24	
Styrene	ug/L	ND	1.0	01/21/16 13:24	
Tetrachloroethene	ug/L	ND	1.0	01/21/16 13:24	
Toluene	ug/L	ND	1.0	01/21/16 13:24	
trans-1,2-Dichloroethene	ug/L	ND	1.0	01/21/16 13:24	
trans-1,3-Dichloropropene	ug/L	ND	1.0	01/21/16 13:24	
Trichloroethene	ug/L	ND	1.0	01/21/16 13:24	
Vinyl chloride	ug/L	ND	1.0	01/21/16 13:24	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA

METHOD BLANK: 1014143

Matrix: Water

Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Xylene (Total)	ug/L	ND	3.0	01/21/16 13:24	
1,2-Dichloroethane-d4 (S)	%	103	77-126	01/21/16 13:24	
4-Bromofluorobenzene (S)	%	105	81-119	01/21/16 13:24	
Dibromofluoromethane (S)	%	107	70-130	01/21/16 13:24	
Toluene-d8 (S)	%	96	84-115	01/21/16 13:24	

LABORATORY CONTROL SAMPLE: 1014144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	20	22.2	111	87-129	
1,1,2,2-Tetrachloroethane	ug/L	20	20.8	104	55-128	
1,1,2-Trichloroethane	ug/L	20	20.9	104	69-120	
1,1-Dichloroethane	ug/L	20	22.4	112	66-129	
1,1-Dichloroethane	ug/L	20	21.5	107	59-133	
1,2,4-Trichlorobenzene	ug/L	20	21.7	108	32-159	
1,2-Dichlorobenzene	ug/L	20	19.2	96	67-128	
1,2-Dichloroethane	ug/L	20	21.5	107	66-123	
1,2-Dichloropropane	ug/L	20	21.9	109	69-121	
1,3-Dichlorobenzene	ug/L	20	20.5	102	65-121	
1,4-Dichlorobenzene	ug/L	20	19.3	96	70-117	
2-Butanone (MEK)	ug/L	20	17.5	87	57-126	
2-Hexanone	ug/L	20	17.5	87	57-129	
4-Methyl-2-pentanone (MIBK)	ug/L	20	21.7	108	65-119	
Acetone	ug/L	20	18.7	94	35-113	
Benzene	ug/L	20	22.6	113	68-116	
Bromochloromethane	ug/L	20	23.0	115	62-125	
Bromodichloromethane	ug/L	20	24.5	123	69-132	
Bromoform	ug/L	20	22.4	112	52-142	
Bromomethane	ug/L	20	20.8	104	14-151	
Carbon disulfide	ug/L	20	24.5	122	53-155	
Carbon tetrachloride	ug/L	20	22.8	114	65-138	
Chlorobenzene	ug/L	20	20.2	101	69-120	
Chloroethane	ug/L	20	19.5	98	62-134	
Chloroform	ug/L	20	21.4	107	67-123	
Chloromethane	ug/L	20	18.1	90	54-143	
cis-1,2-Dichloroethane	ug/L	20	22.3	111	66-122	
cis-1,3-Dichloropropene	ug/L	20	20.5	102	64-125	
Dibromochloromethane	ug/L	20	22.2	111	61-135	
Ethylbenzene	ug/L	20	21.1	105	71-116	
m&p-Xylene	ug/L	40	41.3	103	74-118	
Methyl-tert-butyl ether	ug/L	20	20.0	100	88-140	
Methylene Chloride	ug/L	20	19.9	100	56-130	
o-Xylene	ug/L	20	20.6	103	71-116	
Styrene	ug/L	20	20.8	104	71-129	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.

QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 1014144

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	20.2	101	82-122	
Toluene	ug/L	20	22.0	110	70-116	
trans-1,2-Dichloroethene	ug/L	20	21.6	108	63-130	
trans-1,3-Dichloropropene	ug/L	20	19.9	97	62-122	
Trichloroethene	ug/L	20	21.6	108	61-126	
Vinyl chloride	ug/L	20	18.0	90	58-127	
Xylene (Total)	ug/L	60	61.9	103	73-118	
1,2-Dichloroethane-d4 (S)	%			98	77-126	
4-Bromofluorobenzene (S)	%			104	81-119	
Dibromofluoromethane (S)	%			102	70-130	
Toluene-d8 (S)	%			100	84-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014145 1014146

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		30170831001 Result	Spike Conc.	Spike Conc.	MS Result					
1,1,1-Trichloroethane	ug/L	<5.0	20	20	18.4	20.8	92	101	54-140	10
1,1,2,2-Tetrachloroethane	ug/L	1.05	20	20	16.2	16.3	81	82	54-124	1
1,1,2-Trichloroethane	ug/L	1.05	20	20	17.0	17.7	85	88	58-120	4
1,1-Dichloroethane	ug/L	<5.0	20	20	18.6	20.2	93	101	55-133	8
1,1-Dichloroethane	ug/L	<5.0	20	20	18.2	20.2	91	101	48-141	10
1,2,4-Trichlorobenzene	ug/L	1.05	20	20	15.8	15.4	79	77	33-130	2
1,2-Dichlorobenzene	ug/L	1.05	20	20	15.3	15.6	76	78	57-124	2
1,2-Dichloroethane	ug/L	<5.0	20	20	17.9	19.0	90	95	58-129	6
1,2-Dichloropropane	ug/L	1.05	20	20	16.9	20.3	95	102	55-125	7
1,3-Dichlorobenzene	ug/L	1.05	20	20	16.0	17.3	80	86	62-119	7
1,4-Dichlorobenzene	ug/L	1.05	20	20	16.2	16.3	81	82	61-111	1
2-Butanone (MEK)	ug/L	10.05	20	20	13.7	14.7	68	73	43-128	7
2-Hexanone	ug/L	10.05	20	20	14.2	14.9	71	75	43-136	5
4-Methyl-2-pentanone (MIBK)	ug/L	10.05	20	20	16.3	16.7	92	93	47-123	2
Acetone	ug/L	10.05	20	20	15.5	9.31	78	47	10-150	
Benzene	ug/L	1.05	20	20	19.3	21.0	97	105	63-123	6
Bromochloromethane	ug/L	1.05	20	20	20.1	21.6	101	108	42-149	7
Bromodichloromethane	ug/L	1.05	20	20	19.8	20.8	99	104	56-127	5
Bromoform	ug/L	1.05	20	20	16.8	17.3	84	87	44-131	3
Bromomethane	ug/L	1.05	20	20	11.4	12.4	57	62	10-149	8
Carbon disulfide	ug/L	1.05	20	20	23.1	24.7	116	123	47-168	7
Carbon tetrachloride	ug/L	1.05	20	20	20.1	22.0	100	110	44-155	9
Chlorobenzene	ug/L	1.05	20	20	16.7	18.2	83	91	57-121	6
Chloroethane	ug/L	1.05	20	20	18.2	20.6	91	103	57-156	12
Chloroform	ug/L	1.05	20	20	18.4	19.9	92	99	58-132	8
Chloromethane	ug/L	1.05	20	20	13.8	15.5	69	77	42-163	12
cis-1,2-Dichloroethane	ug/L	<5.0	20	20	22.5	24.8	92	102	46-139	8
cis-1,3-Dichloropropane	ug/L	1.05	20	20	17.6	19.4	88	97	55-119	10
Dibromochloromethane	ug/L	1.05	20	20	17.9	18.8	90	94	52-129	5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1014145 1014145

Parameter	Units	30170831001		MSD		MS		MSD		% Rec	Limits	RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	% Rec	% Rec					
Ethylbenzene	ug/L	1.05	20	20	17.4	19.2	87	98	70-120	10			
m&p-Xylene	ug/L	2.05	40	40	34.4	37.1	86	93	70-123	7			
Methyl-tert-butyl ether	ug/L	1.05	20	20	18.4	19.2	92	96	83-143	4			
Methylene Chloride	ug/L	1.05	20	20	16.1	17.0	81	85	38-134	5			
o-Xylene	ug/L	1.05	20	20	17.3	18.2	87	91	68-122	5			
Styrene	ug/L	1.05	20	20	11.6	16.6	58	83	48-135	35	R1		
Tetrachloroethene	ug/L	<5.0	20	20	17.3	18.9	87	94	53-125	9			
Toluene	ug/L	1.05	20	20	17.8	19.5	89	98	66-124	10			
trans-1,2-Dichloroethene	ug/L	<5.0	20	20	18.0	20.0	90	100	52-136	11			
trans-1,3-Dichloropropene	ug/L	1.05	20	20	16.8	17.8	83	89	54-118	7			
Trichloroethene	ug/L	<5.0	20	20	18.7	20.1	84	101	50-127	7			
Vinyl chloride	ug/L	<5.0	20	20	18.3	19.5	83	89	54-149	6			
Xylene (Total)	ug/L	3.05	60	60	51.7	55.2	86	92	68-123	7			
1,2-Dichloroethane-d4 (S)	%						100	101	77-126				
4-Bromofluorobenzene (S)	%						103	103	81-119				
Dibromofluoromethane (S)	%						107	110	70-130				
Toluene-d8 (S)	%						96	98	84-115				

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA



QC Batch: OEXT/29907 Analysis Method: EPA 8270C
 QC Batch Method: EPA 8510C Analysis Description: 8270 TCLP MSSV
 Associated Lab Samples: 30170694001

METHOD BLANK: 1015010 Matrix: Water
 Associated Lab Samples: 30170894001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dichlorobenzene	ug/L	ND	500	01/25/16 08:30	
2,4,5-Trichlorophenol	ug/L	ND	5000	01/25/16 08:30	
2,4,6-Trichlorophenol	ug/L	ND	100	01/25/16 08:30	
2,4-Dinitrotoluene	ug/L	ND	100	01/25/16 08:30	
2-Methylphenol(o-Cresol)	ug/L	ND	2000	01/25/16 08:30	
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2000	01/25/16 08:30	
Hexachloro-1,3-butadiene	ug/L	ND	100	01/25/16 08:30	
Hexachlorobenzene	ug/L	ND	100	01/25/16 08:30	
Hexachloroethane	ug/L	ND	500	01/25/16 08:30	
Nitrobenzene	ug/L	ND	100	01/25/16 08:30	
Pentachlorophenol	ug/L	ND	5000	01/25/16 08:30	
Pyridine	ug/L	ND	500	01/25/16 08:30	
2,4,6-Tribromophenol (S)	%	100	34-134	01/25/16 08:30	
2-Fluorobiphenyl (S)	%	87	34-113	01/25/16 08:30	
2-Fluorophenol (S)	%	60	19-70	01/25/16 08:30	
Nitrobenzene-d5 (S)	%	83	22-128	01/25/16 08:30	
Phenol-d6 (S)	%	44	14-49	01/25/16 08:30	
Terphenyl-d14 (S)	%	87	35-150	01/25/16 08:30	

LABORATORY CONTROL SAMPLE: 1015011

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dichlorobenzene	ug/L	500	409J	82	34-91	
2,4,5-Trichlorophenol	ug/L	500	430J	86	29-160	
2,4,6-Trichlorophenol	ug/L	500	419	84	51-127	
2,4-Dinitrotoluene	ug/L	500	360	72	46-107	
2-Methylphenol(o-Cresol)	ug/L	500	379J	76	32-118	
3&4-Methylphenol(m&p Cresol)	ug/L	1000	757J	78	30-103	
Hexachloro-1,3-butadiene	ug/L	500	503	101	36-117	
Hexachlorobenzene	ug/L	500	357	71	53-128	
Hexachloroethane	ug/L	500	424J	85	26-110	
Nitrobenzene	ug/L	500	487	97	26-130	
Pentachlorophenol	ug/L	500	350J	70	28-131	
Pyridine	ug/L	500	263J	53	10-175	
2,4,6-Tribromophenol (S)	%			87	34-134	
2-Fluorobiphenyl (S)	%			85	34-113	
2-Fluorophenol (S)	%			58	19-70	
Nitrobenzene-d5 (S)	%			86	22-128	
Phenol-d6 (S)	%			43	14-49	
Terphenyl-d14 (S)	%			87	35-150	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA

Parameter	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015012			1015013			MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	30170187012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result					
1,4-Dichlorobenzene	ug/L	ND	500	500	376J	486J	75	97	34-91		M1
2,4,6-Trichlorophenol	ug/L	ND	500	500	438J	510J	88	102	23-160		
2,4,6-Trichlorophenol	ug/L	ND	500	500	439	496	89	99	51-127	12	
2,4-Dinitrotoluene	ug/L	ND	500	500	368	430	72	86	48-107	16	
2-Methylphenol(o-Cresol)	ug/L	ND	500	500	381J	426J	72	85	32-116		
3&4-Methylphenol(m&p Cresol)	ug/L	ND	1000	1000	719J	837J	72	84	30-109		
Hexachloro-1,3-butadiene	ug/L	ND	500	500	457	535	91	107	36-117	16	
Hexachlorobenzene	ug/L	ND	500	500	368	401	73	80	53-126	9	
Hexachlorosthane	ug/L	ND	500	500	418J	499J	84	100	26-110		
Nitrobenzene	ug/L	ND	500	500	446	548	89	110	26-130	20	
Pentachlorophenol	ug/L	ND	500	500	368J	399J	74	80	28-131		
Pyridine	ug/L	ND	500	500	264J	312J	53	62	10-175		
2,4,6-Tribromophenol (S)	%						106	129	34-134		
2-Fluorobiphenyl (S)	%						82	104	34-113		
2-Fluorophenol (S)	%						51	54	19-70		
Nitrobenzene-d5 (S)	%						82	99	22-128		
Phenol-d6 (S)	%						35	39	14-49		
Terphenyl-d14 (S)	%						127	196	35-150		IS,S6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Face Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: QEXT/26854 Analysis Method: EPA 8270C
 QC Batch Method: EPA 8510C Analysis Description: 8270 Water MSSV
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013285 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2,4-Trichlorobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
1,2-Dichlorobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
1,3-Dichlorobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
1,4-Dichlorobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
1-Methylnaphthalene	ug/L	ND	1.0	01/21/16 18:54	M5
2,4,6-Trichlorophenol	ug/L	ND	2.5	01/21/16 18:54	M5
2,4,6-Trichlorophenol	ug/L	ND	1.0	01/21/16 18:54	M5
2,4-Dichlorophenol	ug/L	ND	1.0	01/21/16 18:54	M5
2,4-Dimethylphenol	ug/L	ND	1.0	01/21/16 18:54	M5
2,4-Dinitrophenol	ug/L	ND	2.5	01/21/16 18:54	M5
2,4-Dinitrotoluene	ug/L	ND	1.0	01/21/16 18:54	M5
2,6-Dinitrotoluene	ug/L	ND	1.0	01/21/16 18:54	M5
2-Chloronaphthalene	ug/L	ND	1.0	01/21/16 18:54	M5
2-Chlorophenol	ug/L	ND	1.0	01/21/16 18:54	M5
2-Methylnaphthalene	ug/L	ND	1.0	01/21/16 18:54	M5
2-Methylphenol(o-Cresol)	ug/L	ND	1.0	01/21/16 18:54	M5
2-Nitroaniline	ug/L	ND	2.5	01/21/16 18:54	M5
2-Nitrophenol	ug/L	ND	1.0	01/21/16 18:54	M5
3&4-Methylphenol(m&p Cresol)	ug/L	ND	2.0	01/21/16 18:54	M5
3,3'-Dichlorobenzidine	ug/L	ND	1.0	01/21/16 18:54	M5
3-Nitroaniline	ug/L	ND	2.5	01/21/16 18:54	M5
4,6-Dinitro-2-methylphenol	ug/L	ND	2.5	01/21/16 18:54	M5
4-Bromophenylphenyl ether	ug/L	ND	1.0	01/21/16 18:54	M5
4-Chloro-3-methylphenol	ug/L	ND	1.0	01/21/16 18:54	M5
4-Chloroaniline	ug/L	ND	1.0	01/21/16 18:54	M5
4-Chlorophenylphenyl ether	ug/L	ND	1.0	01/21/16 18:54	M5
4-Nitroaniline	ug/L	ND	2.5	01/21/16 18:54	M5
4-Nitrophenol	ug/L	ND	1.0	01/21/16 18:54	M5
Acenaphthene	ug/L	ND	1.0	01/21/16 18:54	M5
Acenaphthylene	ug/L	ND	1.0	01/21/16 18:54	M5
Anthracene	ug/L	ND	1.0	01/21/16 18:54	M5
Azobenzene	ug/L	ND	1.0	01/21/16 18:54	M5, N2
Benzo(a)anthracene	ug/L	ND	1.0	01/21/16 18:54	M5
Benzo(a)pyrene	ug/L	ND	1.0	01/21/16 18:54	M5
Benzo(b)fluoranthene	ug/L	ND	1.0	01/21/16 18:54	M5
Benzo(g,h,i)perylene	ug/L	ND	1.0	01/21/16 18:54	M5
Benzo(k)fluoranthene	ug/L	ND	1.0	01/21/16 18:54	M5
Benzole acid	ug/L	ND	25.0	01/21/16 18:54	M5
Benzyl alcohol	ug/L	ND	1.0	01/21/16 18:54	M5
bis(2-Chloroethoxy)methane	ug/L	ND	1.0	01/21/16 18:54	M5
bis(2-Chloroethyl) ether	ug/L	ND	1.0	01/21/16 18:54	M5

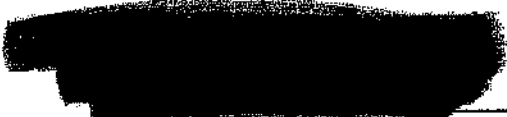
Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA



METHOD BLANK: 1013285

Matrix: Water

Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
bis(2-Chloroisopropyl) ether	ug/L	ND	1.0	01/21/16 18:54	M5
bis(2-Ethylhexyl)phthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Butylbenzylphthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Carbazole	ug/L	ND	1.0	01/21/16 18:54	M5
Chryserie	ug/L	ND	1.0	01/21/16 18:54	M5
Di-n-butylphthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Di-n-octylphthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Dibenz(a,h)anthracene	ug/L	ND	1.0	01/21/16 18:54	M5
Dibenzofuran	ug/L	ND	1.0	01/21/16 18:54	M5
Diethylphthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Dimethylphthalate	ug/L	ND	1.0	01/21/16 18:54	M5
Fluoranthene	ug/L	ND	1.0	01/21/16 18:54	M5
Fluorene	ug/L	ND	1.0	01/21/16 18:54	M5
Hexachloro-1,3-butadiene	ug/L	ND	1.0	01/21/16 18:54	M5
Hexachlorobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
Hexachlorocyclopentadiene	ug/L	ND	1.0	01/21/16 18:54	M5
Hexachloroethane	ug/L	ND	1.0	01/21/16 18:54	M5
Indeno(1,2,3-cd)pyrene	ug/L	ND	1.0	01/21/16 18:54	M5
Isophorone	ug/L	ND	1.0	01/21/16 18:54	M5
N-Nitroso-di-n-propylamine	ug/L	ND	1.0	01/21/16 18:54	M5
N-Nitrosodimethylamine	ug/L	ND	1.0	01/21/16 18:54	M5
N-Nitrosodiphenylamine	ug/L	ND	1.0	01/21/16 18:54	M5
Naphthalene	ug/L	ND	1.0	01/21/16 18:54	M5
Nitrobenzene	ug/L	ND	1.0	01/21/16 18:54	M5
Pentachlorophenol	ug/L	ND	2.5	01/21/16 18:54	M5
Phenanthrene	ug/L	ND	1.0	01/21/16 18:54	M5
Phenol	ug/L	ND	1.0	01/21/16 18:54	M5
Pyrene	ug/L	ND	1.0	01/21/16 18:54	M5
2,4,6-Tribromophenol (S)	%	88	34-134	01/21/16 18:54	30, M5
2-Fluorobiphenyl (S)	%	80	34-113	01/21/16 18:54	M5
2-Fluorophenol (S)	%	46	19-70	01/21/16 18:54	M5
Nitrobenzene-d5 (S)	%	77	22-128	01/21/16 18:54	M5
Phenol-d6 (S)	%	34	14-49	01/21/16 18:54	M5
Terphenyl-d14 (S)	%	91	35-150	01/21/16 18:54	M5

LABORATORY CONTROL SAMPLE: 1013285

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trichlorobenzene	ug/L	10	5.9	59	37-99	M5
1,2-Dichlorobenzene	ug/L	10	7.1	71	31-112	M5
1,3-Dichlorobenzene	ug/L	10	7.1	71	29-106	M5
1,4-Dichlorobenzene	ug/L	10	7.5	75	34-91	M5
1-Methylnaphthalene	ug/L	10	6.8	68	46-107	M5
2,4,6-Trichlorophenol	ug/L	10	8.8	88	23-160	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.

QUALITY CONTROL DATA

LABORATORY CONTROL SAMPLE: 1013286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,4,6-Trichlorophenol	ug/L	10	8.9	89	51-127	M5
2,4-Dichlorophenol	ug/L	10	6.8	68	32-126	M5
2,4-Dimethylphenol	ug/L	10	6.0	60	30-124	M5
2,4-Dinitrophenol	ug/L	10	7.0	70	10-170	M5
2,4-Dinitrotoluene	ug/L	10	8.9	89	46-107	M5
2,6-Dinitrotoluene	ug/L	10	9.4	94	14-167	M5
2-Chloronaphthalene	ug/L	10	8.0	80	42-114	M5
2-Chlorophenol	ug/L	10	7.7	77	40-100	M5
2-Methylnaphthalene	ug/L	10	5.9	59	43-100	M5
2-Methylphenol(o-Cresol)	ug/L	10	7.4	74	32-116	M5
2-Nitroaniline	ug/L	10	8.8	88	35-144	M5
2-Nitrophenol	ug/L	10	6.7	67	29-129	M5
3&4-Methylphenol(m&p Cresol)	ug/L	10	7.4	74	30-103	M5
3,3'-Dichlorobenzidine	ug/L	10	11.2	112	32-196	M5
3-Nitroaniline	ug/L	10	9.9	99	20-163	M5
4,6-Dinitro-2-methylphenol	ug/L	10	8.7	87	20-154	M5
4-Bromophenylphenyl ether	ug/L	10	10.9	109	41-133	M5
4-Chloro-3-methylphenol	ug/L	10	7.1	71	40-111	M5
4-Chloroaniline	ug/L	10	5.8	58	10-148	M5
4-Chlorophenylphenyl ether	ug/L	10	9.0	90	25-154	M5
4-Nitroaniline	ug/L	10	9.7	97	42-157	M5
4-Nitrophenol	ug/L	10	4.4	44	10-57	M5
Acenaphthene	ug/L	10	8.9	89	45-106	M5
Acenaphthylene	ug/L	10	8.5	85	45-108	M5
Anthracene	ug/L	10	9.7	97	64-107	M5
Azobenzene	ug/L	10	10.2	102	34-136	M5,N2
Benzo(a)anthracene	ug/L	10	10.1	101	68-108	M5
Benzo(a)pyrene	ug/L	10	10.2	102	60-108	M5
Benzo(b)fluoranthene	ug/L	10	11.4	114	68-120	M5
Benzo(g,h,i)perylene	ug/L	10	4.6	46	29-139	M5
Benzo(k)fluoranthene	ug/L	10	12.3	123	64-122	L0,M5
Benzoic acid	ug/L	10	4.1	40	10-60	M5
Benzyl alcohol	ug/L	10	10.1	101	16-121	M5
bis(2-Chloroethoxy)methane	ug/L	10	6.7	67	36-129	M5
bis(2-Chloroethyl) ether	ug/L	10	8.8	88	31-123	M5
bis(2-Chloroisopropyl) ether	ug/L	10	9.8	98	28-124	M5
bis(2-Ethylhexyl)phthalate	ug/L	10	9.8	98	30-177	M5
Butylbenzylphthalate	ug/L	10	9.6	96	40-159	M5
Carbazole	ug/L	10	9.8	98	51-142	M5
Chrysene	ug/L	10	10.0	100	69-103	M5
Di-n-butylphthalate	ug/L	10	10.9	109	24-159	M5
Di-n-octylphthalate	ug/L	10	9.1	91	40-148	M5
Dibenz(a,h)anthracene	ug/L	10	5.9	59	39-132	M5
Dibenzofuran	ug/L	10	8.4	84	48-127	M5
Diethylphthalate	ug/L	10	9.8	98	52-127	M5
Dimethylphthalate	ug/L	10	9.7	97	52-128	M5
Fluoranthene	ug/L	10	10.1	101	64-114	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.

QUALITY CONTROL DATA



LABORATORY CONTROL SAMPLE: 1013286

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluorene	ug/L	10	8.9	89	49-110	M5
Hexachloro-1,3-butadiene	ug/L	10	6.1	61	36-117	M5
Hexachlorobenzene	ug/L	10	12.4	124	63-128	M5
Hexachlorocyclopentadiene	ug/L	10	5.5	55	20-88	M5
Hexachloroethane	ug/L	10	7.5	75	26-110	M5
Indeno(1,2,3-cd)pyrene	ug/L	10	5.7	57	37-131	M5
Isophorone	ug/L	10	7.3	73	30-123	M5
N-Nitroso-di-n-propylamine	ug/L	10	9.7	97	41-110	M5
N-Nitrosodimethylamine	ug/L	10	6.4	64	13-90	M5
N-Nitrosodiphenylamine	ug/L	10	7.1	71	43-134	M5
Naphthalene	ug/L	10	6.3	63	45-101	M5
Nitrobenzene	ug/L	10	5.9	59	28-130	M5
Pentachlorophenol	ug/L	10	10.2	102	28-131	M5
Phenanthrene	ug/L	10	9.6	96	59-109	M5
Phenol	ug/L	10	4.3	43	15-48	M5
Pyrene	ug/L	10	9.2	92	53-115	M5
2,4,6-Tribromophenol (S)	%			113	34-134	3a, M5
2-Fluorobiphenyl (S)	%			81	34-113	M5
2-Fluorophenol (S)	%			47	19-70	M5
Nitrobenzene-d5 (S)	%			61	22-128	M5
Phenol-d6 (S)	%			81	14-49	M5
Terphenyl-d14 (S)	%			85	35-150	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
1638 Rossytown Road - Suites 2,3,4
Greensburg, PA 15601
(724)850-8600

QUALITY CONTROL DATA



QC Batch: WET/31797 Analysis Method: EPA 1010
QC Batch Method: EPA 1010 Analysis Description: 1010 Flash Point, Closed Cup
Associated Lab Samples: 30170694001

METHOD BLANK: 1015791 Matrix: Water
Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Flashpoint	deg F	>200	60.0	01/25/18 16:08	

SAMPLE DUPLICATE: 1015792

Parameter	Units	30169986016 Result	Dup Result	RPD	Qualifiers
Flashpoint	deg F	>200	>200		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: WET/31730 Analysis Method: EPA 1664A
 QC Batch Method: EPA 1664A Analysis Description: 1664 HEM, Oil and Grease
 Associated Lab Sample: 30170694001

METHOD BLANK: 1016855 Matrix: Water
 Associated Lab Sample: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Oil and Grease	mg/L	ND	5.0	01/22/16 21:00	M5

LABORATORY CONTROL SAMPLE: 1016858

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Oil and Grease	mg/L	42.1	42.0	100	78-114	M5

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Face Analytical Services, Inc..



QUALITY CONTROL DATA



QC Batch: WET/31728 Analysis Method: SM 2320B
 QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013166 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	10.0	01/19/16 17:50	

LABORATORY CONTROL SAMPLE: 1013167

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	20	22.0	110	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1013168 1013169

Parameter	30170475001		MSD		MS		MSD		% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Alkalinity, Total as CaCO3	mg/L	166	100	100	220	220	64	64	85-115	0	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: WET1731750 Analysis Method: SM 2540D
 QC Batch Method: SM 2540D Analysis Description: 2540D Total Suspended Solids
 Associated Lab Samples: 30170894001

METHOD BLANK: 1013277 Matrix: Water
 Associated Lab Samples: 30170894001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	ND	4.0	01/19/16 19:00	

LABORATORY CONTROL SAMPLE: 1013278

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	90.0	90	80-120	

SAMPLE DUPLICATE: 1013279

Parameter	Units	30170742003 Result	Dup Result	RPD	Qualifiers
Total Suspended Solids	mg/L	ND	ND		

SAMPLE DUPLICATE: 1013280

Parameter	Units	30170885004 Result	Dup Result	RPD	Qualifiers
Total Suspended Solids	mg/L	7.0	7.0	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-8600

QUALITY CONTROL DATA



QC Batch: WE175712 Analysis Method: SM 4500-Cl G
 QC Batch Method: SM 4500-Cl G Analysis Description: 4500CL G Chlorine, Total Residual
 Associated Lab Samples: 30170694001

METHOD BLANK: 1012426 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorine, Total Residual	mg/L	ND	0.10	01/15/16 20:00	H6

LABORATORY CONTROL SAMPLE: 1012427

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorine, Total Residual	mg/L	.5	0.56	110	90-110	H6

MATRIX SPIKE SAMPLE: 1012429

Parameter	Units	30170694001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chlorine, Total Residual	mg/L	ND	5	ND	0	85-115	D3,H3,H6,M1

SAMPLE DUPLICATE: 1012428

Parameter	Units	30170694001 Result	Dup Result	RPD	Qualifiers
Chlorine, Total Residual	mg/L	ND	ND		D3,H3,H6

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL DATA



QC Batch: WET/31727 Analysis Method: SM 4500-S F
 QC Batch Method: SM 4500-S F Analysis Description: 4500S2F Sulfide, Iodometric
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013160 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide	mg/L	ND	1.0	01/20/16 15:30	

LABORATORY CONTROL SAMPLE: 1013161

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	5.8	5.8	97	85-115	

MATRIX SPIKE SAMPLE: 1013162

Parameter	Units	30170567001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Sulfide	mg/L	ND	5.8	5.6	97	85-115	

SAMPLE DUPLICATE: 1013163

Parameter	Units	30170567002 Result	Dup Result	RPD	Qualifiers
Sulfide	mg/L	ND	ND		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)850-5600

QUALITY CONTROL DATA



QC Batch: WETA/22426 Analysis Method: EPA 350.1
 QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013455 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/20/16 09:03	

METHOD BLANK: 1013457 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/20/16 09:04	

METHOD BLANK: 1013458 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	ND	0.10	01/20/16 09:05	

LABORATORY CONTROL SAMPLE: 1013456

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	4	4.0	100	80-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1013459 1013460

Parameter	Units	3017069002		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.							
Nitrogen, Ammonia	mg/L	0.37	4	4	4	4.4	4.4	100	100	80-110	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: WETA22472 Analysis Method: EPA 351.2
 QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
 Associated Lab Samples: 30170694001

METHOD BLANK: 1015607 Matrix: Water
 Associated Lab Samples: 30170594001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	ND	1.0	01/25/18 14:54	

LABORATORY CONTROL SAMPLE: 1015608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	4	3.8	94	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015609 1015610

Parameter	Units	30170490001		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Conc.	Conc.	Result	Result	% Rec	% Rec		
Nitrogen, Kjeldahl, Total	mg/L	1.6	4	4	4	5.2	5.5	80	88	90-110	6

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1015611 1015612

Parameter	Units	30170633007		MS		MSD		% Rec		RPD	Qual
		Result	Conc.	Conc.	Conc.	Result	Result	% Rec	% Rec		
Nitrogen, Kjeldahl, Total	mg/L	2.1	4	4	4	5.6	5.6	88	88	90-110	1 M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc..



QUALITY CONTROL DATA



QC Batch: WET7022431 Analysis Method: EPA 410.4
 QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013527 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	01/20/16 09:25	

METHOD BLANK: 1013861 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	ND	25.0	01/20/16 09:25	

LABORATORY CONTROL SAMPLE: 1013528.

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	300	295	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1013529 1013530

Parameter	Units	3017069002 Result	MS		MSD		MS		MSD		% Rec Limits	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chemical Oxygen Demand	mg/L	ND	150	150	161	165	101	104	90-110	3			

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.,



QUALITY CONTROL DATA



QC Batch: **WE1792246** Analysis Method: **EPA 420.1**
 QC Batch Method: **EPA 420.1** Analysis Description: **420.1 Phenolics**
 Associated Lab Samples: **30170694001**

METHOD BLANK: **1013658** Matrix: **Water**
 Associated Lab Samples: **30170694001**

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phenol	mg/L	ND	0.050	01/20/16 17:55	

LABORATORY CONTROL SAMPLE: 1013657

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phenol	mg/L	.25	0.28	113	85-115	

MATRIX SPIKE SAMPLE: 1013659

Parameter	Units	30170835002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phenol	mg/L	ND	.25	0.28	109	85-115	

SAMPLE DUPLICATE: 1013658

Parameter	Units	30170835002 Result	Dup Result	RPD	Qualifiers
Phenol	mg/L	ND	.015J		

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: WE17022428 Analysis Method: SM 4500-CN-E
 QC Batch Method: SM 4500-CN-E Analysis Description: 4500CNE Cyanide, Total
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013446 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	01/20/16 23:00	Zc

METHOD BLANK: 1013447 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide	mg/L	ND	0.010	01/20/16 23:00	

LABORATORY CONTROL SAMPLE: 1013448

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyanide	mg/L	.2	0.21	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1013448 1013450

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
		30170688002 Result	Spike Conc.	Spike Conc.	MS Result					
Cyanide	mg/L	0.11	.1	.1	0.11	0.081	-3	-31	90-110	29 M1,R1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA



QC Batch: WETA/22409 Analysis Method: SM 4500-PE
 QC Batch Method: SM 4500-PE Analysis Description: 4500PE Ortho Phosphorus
 Associated Lab Samples: 30170694001

METHOD BLANK: 1012430 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Orthophosphate as P	mg/L	ND	0.030	01/15/16 19:30	

LABORATORY CONTROL SAMPLE: 1012431

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	.2	0.20	89	85-115	

MATRIX SPIKE SAMPLE: 1012433

Parameter	Units	30170694001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Orthophosphate as P	mg/L	ND	.2	0.67	32	90-110	D3,M1

SAMPLE DUPLICATE: 1012432

Parameter	Units	30170694001 Result	Dup Result	RPD	Qualifiers
Orthophosphate as P	mg/L	ND	ND		D3

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suite 2,3,4
 Greensburg, PA 15601
 (724)850-5800

QUALITY CONTROL DATA



QC Batch: WETA/22424 Analysis Method: SW-846 7.3.3.2
 QC Batch Method: SW-846 7.3.3.2 Analysis Description: 733C Reactive Cyanide
 Associated Lab Samples: 30170694001

METHOD BLANK: 1013438 Matrix: Water
 Associated Lab Samples: 30170694001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Cyanide, Reactive	mg/L	ND	0.010	01/19/16 23:55	

SAMPLE DUPLICATE: 1013439

Parameter	Units	30170694001 Result	Dup Result	RPD	Qualifiers
Cyanide, Reactive	mg/L	0.043	0.049	14	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc.



Pace Analytical Services, Inc.
 1638 Roseytown Road - Suites 2,3,4
 Greensburg, PA 15601
 (724)860-5800

QUALITY CONTROL DATA



QC Batch: WETA/22425 Analysis Method: SW-848 7.3.4.2
 QC Batch Method: SW-848 7.3.4.2 Analysis Description: 7348 Reactive Sulfide
 Associated Lab Samples: 30170894001

METHOD BLANK: 1013440 Matrix: Water
 Associated Lab Samples: 30170894001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfide, Reactive	mg/L	ND	1.0	01/19/16 18:10	

SAMPLE DUPLICATE: 1013441

Parameter	Units	30170894001 Result	Dup Result	RPD	Qualifiers
Sulfide, Reactive	mg/L	2.0	2.0	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full, without the written consent of Pace Analytical Services, Inc.

QUALIFIERS

DEFINITIONS

- DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.
- ND - Not Detected at or above adjusted reporting limit.
- J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.
- MDL - Adjusted Method Detection Limit.
- PQL - Practical Quantitation Limit.
- RL - Reporting Limit.
- S - Surrogate
- 1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.
- Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.
- LCS(D) - Laboratory Control Sample (Duplicate)
- MS(D) - Matrix Spike (Duplicate)
- DUP - Sample Duplicate
- RPD - Relative Percent Difference
- NC - Not Calculable.
- SG - Silica Gel - Clean-Up
- U - Indicates the compound was analyzed for, but not detected.
- N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.
- Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.
- TNI - The NELAC Institute.

LABORATORIES

PAS-PA Pace Analytical Services - Greensburg

BATCH QUALIFIERS

Batch: OEXT/26854

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSSV/8763

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: WET/31790

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

- 1c A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- 2c Analyte detected in ASTM blank. ASTM sample concentration >10x blank concentration.
- 3c The continuing calibration for this compound is outside of Pace Analytical acceptance limits. Results unaffected by high bias.
- D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.
- H3 Sample was received or analysis requested beyond the recognized method holding time.
- H6 Analysis initiated outside of the 15 minute EPA required holding time.
- IS The internal standard response is below criteria. Results may be biased high.
- L0 Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
- L2 Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc..



QUALIFIERS

ANALYTE QUALIFIERS

- L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.
- M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.
- M5 A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.
- N2 The lab does not hold TNI accreditation for this parameter.
- R1 RPD value was outside control limits.
- S4 Surrogate recovery not evaluated against control limits due to sample dilution.
- S6 Surrogate recovery outside control limits. Data accepted based on valid recovery of applicable surrogates (no analytes associated with this surrogate)

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
without the written consent of Pace Analytical Services, Inc.



QUALITY CONTROL DATA CROSS REFERENCE TABLE



Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
30170694001	Flushing liquor	EPA 3005A	MPRP/17407	EPA 6010B	ICP/18525
30170694001	Flushing liquor	EPA 3005A	MPRP/17389	EPA 6010B	ICP/18507
30170694001	Flushing liquor	EPA 7470A	MERP/7297	EPA 7470A	MERC/6978
30170694001	Flushing liquor	EPA 7470A	MERP/7288	EPA 7470A	MERC/6979
30170694001	Flushing liquor	EPA 3510C	OEXT/26007	EPA 8270C	MSSV/8775
30170694001	Flushing liquor	EPA 3510C	OEXT/26554	EPA 8270C	MSSV/8763
30170694001	Flushing liquor	EPA 8280B	MSV/26773		
30170694001	Flushing liquor	EPA 8280B	MSV/26894		
30170694001	Flushing liquor	EPA 1010	WET/31797		
30170694001	Flushing liquor	EPA 1064A	WET/31790		
30170694001	Flushing liquor	SM 2320B	WET/31728		
30170694001	Flushing liquor	SM 2640D	WET/31738		
30170694001	Flushing liquor	SM 4500-CI G	WET/31712		
30170694001	Flushing liquor	SM 4500-S F	WET/31727		
30170694001	Flushing liquor	EPA 350.1	WETA/22428		
30170694001	Flushing liquor	EPA 351.2	WETA/22472		
30170694001	Flushing liquor	EPA 410.4	WETA/22431		
30170694001	Flushing liquor	EPA 420.1	WETA/22434		
30170694001	Flushing liquor	SM 4500-CN-E	WETA/22426		
30170694001	Flushing liquor	SM 4500-P E	WETA/22409		
30170694001	Flushing liquor	SW-846 7.3.3.2	WETA/22424		
30170694001	Flushing liquor	SW-846 7.3.4.2	WETA/22423		

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
 without the written consent of Pace Analytical Services, Inc..

00886

CHAIN-OF-CUSTODY / Analytical Request Document
 The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately

Pace Analytical
 www.paceanalytical.com

Section A
 Required Client Information:
 Client Name: [Redacted]
 Address: [Redacted]
 City: [Redacted] State: [Redacted] Zip: [Redacted]

Section B
 Required Project Information:
 Project Name: [Redacted]
 Project Address: [Redacted]
 Project City: [Redacted] State: [Redacted] Zip: [Redacted]

Section C
 Invoicing Information:
 Company Name: [Redacted]
 Address: [Redacted]
 City: [Redacted] State: [Redacted] Zip: [Redacted]

Pages: 1 of 2
 1974777

REGULATORY AGENCY
 NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: PA

ITEM #	MATRIX CODE	MATERIAL CODE	DATE	TIME	COLLECTED		DATE	TIME	RECEIVED BY / APPLICATION	DATE	TIME	ACQUIRED BY / APPLICATION	DATE	TIME	SAMPLE CONDITIONS
					COMPOSITE	ENDPOINTS									
1	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
2	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
3	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
4	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
5	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
6	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
7	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
8	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
9	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
10	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
11	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	
12	MC	Drinking Water	11/11/16	14:00			11/11/16	14:00	J.W.H. / Core	11/11/16	14:50	J.W.H. / Core	11/11/16	14:50	

Section D
 Required Client Information:
 Sample ID: 0170694
 Sample ID's MUST BE UNIQUE

Section E
 Required Project Information:
 Project Name: Fishing Lake
 Project Address: [Redacted]
 Project City: [Redacted] State: [Redacted] Zip: [Redacted]

Section F
 Invoicing Information:
 Company Name: [Redacted]
 Address: [Redacted]
 City: [Redacted] State: [Redacted] Zip: [Redacted]

Temp in °C: [Redacted]
 Received on: 11/11/16
 Received by: J.W.H. / Core
 Temp in °F: 59.0

PH = 9.57 @ collection
 Remarks Continue on Page 2 of 2

71 of 80

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to Pace's standard terms and conditions.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant facts must be completed accurately.

Section A
Required Client Information:

Company Name: [REDACTED]
Address: [REDACTED]
Phone/Fax: [REDACTED]

Section B
Required Project Information:

Project Name: [REDACTED]
Project Address: [REDACTED]
Project Location: [REDACTED]

Section C
Invoicing Information:

Invoice Number: 202
Invoice Date: 2/7/76

Section D
Required Client Information:

Sample ID: 942-0872
Sample ID's MUST BE UNIQUE

Matrix Code: [REDACTED]

Sample Type: [REDACTED]

Matrix Code (see field codes to left):
 CW Drinking Water
 WT Waste Water
 P Product
 SL Sludge
 W Wipe
 AR Air
 TS Tissue
 OT Other

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Location: [REDACTED] STATE: PA

ITEM #	COLLECTED		DATE	TIME	DATE	TIME	RELINQUISHED BY / OPERATOR	DATE	TIME	SAMPLE CONDITIONS	Sample Matrix (Y/N)	Sealed Cooler (Y/N)	Refrigerated Ice (Y/N)	Temperature (Y/N)
	COMPOSITE SWAB	COMPOSITE ENDOGENIC												
1			1-11-11	11:00	1-11-11	11:00	[REDACTED]							
2							[REDACTED]							
3							[REDACTED]							
4							[REDACTED]							
5							[REDACTED]							
6							[REDACTED]							
7							[REDACTED]							
8							[REDACTED]							
9							[REDACTED]							
10							[REDACTED]							
11							[REDACTED]							
12							[REDACTED]							

ADDITIONAL COMMENTS:
pH = 9.5/0 collection

SAMPLE NAME AND SIGNATURE:
[REDACTED]

PRINT NAME OF SIGNATURE:
[REDACTED]

SIGNATURE:
[REDACTED]

Face Analytical

Sample Collection Form

Client Name: [Redacted] Project: [Redacted]

Courier: Fed Ex UPS USPS Client Commercial Face Other _____
 Tracking #: _____
 Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no Biological Tissue is Frozen: Yes No
 Packing Material: Bubble Wrap Bubble Bags _____ None _____ Other _____
 Thermometer Used _____ Type of Ice: Wet Blue None Samples on ice, cooling process has begun
 Cooler Temp.: Observed Temp.: 2.8 °C Correction Factor: 0.0 °C Final Temp.: 2.8 °C

Date and Initials of person examining container: 10/11/15/10
[Signature]

Temp should be above freezing to 6°C

Comments:

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Reinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived Within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC: -includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: <u>(0)</u> coliform, TOC, O&G, Phenols	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased)		

13. Added 6mL HNO₃ to metals bottle.
 Added 6mL H₂SO₄ to nut bottle. pH 2
 ARMs. 11/5/15. 1845.
 Initial when completed: ARM Lot # of added preservative: 120715-2AFW 100515-4CFX

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Field Data Required? Y / N

Comments/ Resolution:

Project Manager Review:

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEFNIR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)



Improving the environment, one client at a time...

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304) 255-2500
Website: www.reilabs.com

3029-C Peters Creek Road
Roanoke, VA 24019
TEL: 540.777.1276

101 17th Street
Ashland, KY 41101
TEL: 606.393.5027

1557 Commerce Road, Suite 201
Verona, VA 24482
TEL: 540.248.0183

16 Commerce Drive
Westover, WV 26601
TEL: 304.241.5861

Monday, January 25, 2016

[REDACTED]

TEL: [REDACTED]
FAX: [REDACTED]

RE: 30170694

Work Order #: 160136

[REDACTED]

REI Consultants, Inc. received 1 sample(s) on 1/20/2016 for the analyses presented in the following report.

Sincerely,

[REDACTED]



Client:

Project:

The analytical results presented in this report were produced using documented laboratory SOPs that incorporate appropriate quality control procedures as described in the applicable methods. Verification of required sample preservation (as required) is recorded on associated laboratory logs. Any deviation from compliance or method modification is identified within the body of this report by a qualifier footnote which is defined at the bottom of this page.

All sample results for solid samples are reported on an "as-received" wet weight basis unless otherwise noted.

Results reported for sums of individual parameters, such as TTHM and HAAS, may vary slightly from the sum of the individual parameter results, due to rounding of individual results, as required by EPA.

The test results in this report meet all NELAP and/or VELAP requirements for parameters clearly designated as PA, VA, PA/VA, or VELAP in the column labeled NELAP.

Please note if the sample collection time is not provided on the Chain of Custody, the default recording will be 0:00:00. This may cause some tests to be apparently analyzed out of hold.

All tests performed by REI Service Centers are designated by an annotation on the test code. All other tests were performed by REI's Main Laboratory in Beaver, WV.

This report may not be reproduced, except in full, without the written approval of REI.

DEFINITIONS:

MCL: Maximum Contaminant Level

MDL: Method Detection Limit; The lowest concentration of analyte that can be detected by the method in the applicable matrix.

Mg/Kg or mg/L: Units of part per million (PPM) - milligram per kilogram (weight/weight) or milligram per liter (weight/volume).

NA: Not Applicable

ND: Not Detected at the PQL or MDL

PQL: Practical Quantitation Limit; The lowest verified limit to which data is quantified without qualifications. Analyte concentrations below PQL are reported either as ND or as a number with a "J" qualifier.

Qual: Qualifier that applies to the analyte reported.

TIC: Tentatively Identified Compound, Estimated Concentration denoted by "J" qualifier.

Ug/Kg or ug/L: Units of part per billion (PPB) - microgram per kilogram (weight/weight) or microgram per liter (weight/volume).

QUALIFIERS:

X: Reported value exceeds required MCL

B: Analyte detected in the associated Method Blank at a concentration > 1/2 the PQL

E: The sample result is within the method accepted Linear Dynamic Range determined by the lab for this analysis. However, it may be considered estimated when applying the TNI (The NELAP Institute) standard.

H: Holding time for preparation or analysis has been exceeded.

J: Analyte concentration is reported, and is less than the PQL and greater than or equal to the MDL. The result reported is an estimate.

S: % REC (% recovery) exceeds control limits

CERTIFICATIONS:

Beaver, WV: WVDHHR 00412CM, WVDEP 080, VADCLS 00281, KYDEP 80039, TNDEQ TN02826, NCDWQ 466, PADEP 68-00839, VADCLS (VELAP) 460148

Bioassay (Beaver, WV): WVDEP 080, VADCLS(VELAP) 460148, PADEP 68-00839

Roanoke, VA: VADCLS(VELAP) 460160

Verona, VA: VADCLS(VELAP) 460151

Ashland, KY: KYDEP 00094, WVDEP 389

Morgantown, WV: WVDHHR 003112M, WVDEP 387



Improving the environment, one client at a time...

REI Consultants, Inc.
PO Box 286
Beaver, WV 25813
TEL: (304)255-2500
Website: www.reicons.com

Sample Receipt Checklist

Client Name:	[REDACTED]
RCPNo:	Date and Time Received: 1/20/2016 12:14:51 PM [REDACTED]
Completed By:	Reviewed By: [REDACTED]
Completed Date: 1/20/2016 12:17:50 PM	Reviewed Date: 1/21/2016 8:24 AM

Carrier Name: FedEx

- | | | | |
|--|---|-----------------------------|---|
| 1. Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 2. Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 3. Are matrices correctly identified on Chain of custody? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 4. Is it clear what analyses were requested? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 5. Custody seals intact? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| 6. Samples in proper container type and preservative? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 7. Were correct preservatives noted on COC? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 8. Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 9. Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 10. Were container labels complete? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 11. All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 12. Was an attempt made to cool the samples? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | NA <input type="checkbox"/> |
| 13. Sample Temp. taken and recorded upon receipt? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | To 0.1 °C |
| 14. Water - Were bubbles absent in VOC vials? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | No Vials <input checked="" type="checkbox"/> |
| 15. Are Samples considered acceptable? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| 16. COC filled out properly? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |

Client Notification/Response

Client Name:	PAC005	Work Order Number:	169188
Comment:			
Client Contacted:	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Person Contacted:			
Contact Mode:	Phone <input type="checkbox"/>	Fax: <input type="checkbox"/>	Email: <input type="checkbox"/>
In Person:	<input type="checkbox"/>		
Date Contacted:	Contacted By:		
Regarding:			
Client Instructions:			
Corrective Action:			

DBFix Evaluation

Chain of Custody

Sample Collection upon Receipt
 (Please record the following information)

Temp in C	Yes	No
Received on Ice	Yes	No
Sealed Proper	Yes	No
Samples intact	Yes	No

Subcontractor Project No. _____
 P.O. No: ASRC-30176894
 Request Date: 3/19/16
 Shipped By: Fudler
 Analysis Due Date: 1/25/2016

Certification Required: PA
 Page Project No.: _____
 Report/Invoice for: _____

Page 1 of 1

Trace Sample ID	Matrix	Collection Date	Time	Analysis Requested	Analysis Method	Preservative Type
1	WT	3/19/16	1430	WAD Cyanide		NaOH
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						

SAMPLING CONTAINERS
 PROVIDED BY CLIENT

Special Requirements: _____
 (Please supply a method blank and LCS CC information on the final report)

Subcontract Lab: _____
 Address: _____
 Phone: _____
 Analysis Authorized By: _____
 Absence of Terms by: _____
 Requisitioned By: _____
 Requisitioned By: _____
 Comments: _____
 (Signature & Affiliation) _____
 Date: _____ Time: _____
 (Signature & Affiliation) _____
 Date: _____ Time: _____

In order to maintain client confidentiality, location name of the sampling site, sampler's name, and signature may not be provided in this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Analytical Services Request
Purchase Order

Subcontractor Project No.:
P.O. No: ASR-30170594

Request Date: 1/18/11
Shipped By: FedEx

Analysis Due Date: 1/25/11

Completion Required: Yes No

Pass Project No.: 30170594
Report/Invoice to: David Pischke

Pass Sample ID:	Matrix:	Collection Date:	Timer:	Analysis Requested:	Analytical Method:	Type:	Price
1	WT	1/18/2011	14:00	WAD Cyanide	NaOH	Preparative	40.00
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							

Special Requirements: *Please supply a method blank and LCS QC information on the final report.*

Subcontract Lab. Address:
REL Consultants
225 Airport Terminal Park Road
Beaver, WV 25813
Sample Receiving
304-255-2400

Unit Price Total: \$ 40.00
Analytical Subtotal: \$ 40.00
Subtotal this Page: \$ 40.00
Total: \$ 40.00

Instructions:
Please fill in your Project Number on with the Purchase Order and the Chain of Custody, sign Acceptance of Terms, and complete the Chain of Custody information. Please return one copy of the Chain of Custody to Pass Analytical Services, Inc with the Final Report. Thank you. Email to PGHSubcom@passlabs.com

PLEASE REFERENCE THE ABOVE P.O. NUMBER ON ALL CORRESPONDENCE



290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9804
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: 5/31/16
ATS SRF: 0504161

Sample Identification: April 2016

Sample Date:	5/2/16	QC Batch Number:	QCORG0504161-E
Laboratory Receipt Date:	5/4/16		B6E0045
Preparation Date:	5/4/16, 5/10/16	Sample Matrix:	Wastewater
Analysis Date:	5/26/16, 5/12/16	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
Benzidine (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	90.6	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	84.0	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	95.1	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	92.4	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	85.6	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	81.6	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	83.5	(32 - 141)
13C-OCDF	EPA 1613B	57.1	(17 - 157)
13C-OCDD	EPA 1613B	51.9	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	91.3	(25 - 164)

Comments:

USEPA Analysis 1613B performed by Vista Analytical.