Minneapolis
City of Lakes

Official Publication No. 8333 August 5, 2016

Procurement Division
330 2nd Ave South, Room 552
Minneapolis, MN 55401

Buyer Information:
Emily Connolly, (612) 673-2197
Emily.Connolly@minneapolismn.gov

AN AFFIRMATIVE ACTION EMPLOYER

ADDENDUM NO. 1
"BIDS FOR HAULING AND DISPOSAL OF UNREGULATED SOILS"

Vendor Question and Answer, Specification Update

Q. Is there any analytical available to look at before we bid to verify the unregulated status fits our specific landfill?

A. Please review attached lab results and summary table for Soil Analytics

THE BID OPENING REMAINS THE SAME

Please consider any changes and/or corrections as part of the original bid specifications and submit your bid accordingly.

Receipt of this addendum should be acknowledged on your bid form.

Bids opened 10:00 AM, Local Time, August 18th, 2016

Finance and Property Services – Procurement Division
City of Minneapolis

Table 1
Soil Analytical Results
Lynden Yard Stockpiles
Minneapolis, Minnesota
Project B1504055.00

Compound/Parameter	CAS No.	Sample Identifier and Date Collected														Residential Soil Reference Value (SRV) (mg/kg)	Industrial Soil Reference Value (SRV) (mg/kg)	Screening Soil Leaching Value (SLV) (mg/kg)
		SP-A1	SP-A2	SP-C1	SP-C2	SP-C3	SP-C4	SP-G1	SP-I1	SP-I2	SP-I3	SP-L1	SP-L2	SP-L3	SP-N1			
		07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016	07/14/2016			
Volatile Organic Compounds (VOCs) (mg/kg)																		
All other reported VOCs	---	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	<RL	---	---	---
Polycyclic Aromatic Hydrocarbons (PAHs) (mg/kg)																		
Acenaphthene	83-32-9	<0.012	<0.012	0.026	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	0.013	0.081	1,200	5,260	81
Acenaphthylene	208-96-8	<0.012	<0.012	0.012	<0.012	0.018	<0.012	0.011	<0.012	<0.012	<0.011	<0.012	<0.012	0.069	0.018	NE	NE	NE
Anthracene	120-12-7	<0.012	<0.012	0.074	<0.012	0.026	0.013	0.021	<0.012	0.022	0.012	0.016	<0.012	0.074	0.18	7,880	45,400	1,300
Benz(a)anthracene	56-55-3	0.019	0.021	0.2	<0.012	0.095	0.094	0.11	0.026 [2]	0.075	0.044	0.13	0.06	0.31	0.51	cPAH	cPAH	cPAH
Benzo(b)fluoranthene	205-99-2	0.028	0.026	0.25	<0.012	0.14	0.11	0.17	0.039 [2]	0.087	0.07	0.2	0.1	0.46	0.73	cPAH	cPAH	cPAH
Benzo(k)fluoranthene	207-08-9	0.015	0.013	0.13	<0.012	0.053	0.043	0.075	0.021 [3]	0.051	0.038	0.071	0.037	0.25	0.3	cPAH	cPAH	cPAH
Benzo(a)pyrene	50-32-8	0.024	0.021	0.22	<0.012	0.11	0.091	0.13	0.031 [2]	0.079	0.056	0.14	0.071	0.39	0.45	cPAH	cPAH	cPAH
Benzo(g,h,i)perylene	191-24-2	0.015	0.012	0.1	<0.012	0.051	0.032	0.047	0.013	0.024	0.019	0.043	0.024	0.13	0.11	NE	NE	NE
Chrysene	218-01-9	0.023	0.026	0.23	<0.012	0.11	0.082	0.12	0.034 [2]	0.07	0.054	0.14	0.067	0.33	0.52	cPAH	cPAH	cPAH
Dibenz(a,h)anthracene	53-70-3	<0.012	<0.012	0.037	<0.012	0.019	0.014	0.02	<0.012	<0.012	<0.011	0.019	<0.012	0.05	0.061	cPAH	cPAH	cPAH
Fluoranthene	206-44-0	0.032	0.049	0.36	0.016	0.17	0.13	0.21	0.051 [3]	0.12	0.083	0.23	0.12	0.54	1.0	1,080	6,800	670
Fluorene	86-73-7	<0.012	<0.012	0.033	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	0.017	0.081	850	4,120	110
Indeno(1,2,3-cd)pyrene	193-39-5	0.013	<0.012	0.11	<0.012	0.052	0.034	0.053	0.014	0.029	0.021	0.05	0.026	0.14	0.15	cPAH	cPAH	cPAH
Naphthalene	91-20-3	<0.012	<0.012	<0.012	<0.012	<0.011	<0.012	<0.011	<0.012	<0.012	<0.011	<0.012	<0.012	<0.012	0.039	10	28	4.5
Phenanthrene	85-01-8	<0.012	0.014	0.26	<0.012	0.051	0.021	0.074	0.014 [3]	0.043	0.03	0.059	0.044	0.2	0.77	NE	NE	NE
Pyrene	129-00-0	0.031	0.048	0.35	0.016	0.14	0.11	0.17	0.043 [2]	0.11	0.071	0.21	0.097	0.52	1.0	890	5,800	440
BaP Equivalent[c]	---	0.03	0.03	0.31	0.00	0.16	0.13	0.18	0.04	0.10	0.07	0.00	0.00	0.00	0.00	2	3	1.4
Metals (mg/kg)																		
Arsenic, Total	7440-38-2	4.5	4.0	4.0	5.0	4.0	3.0	2.8	3.6	2.4	2.1	5.1	5.5	3.2	3.4	9	20	5.8
Barium, Total	7440-39-3	73.2	68.1	97.1	117	61.0	63.2	34.2	84.5 [5]	52.8	52.7	89.9	86.3	49.6	42.3	1,100	18,000	1,700
Cadmium, Total	7440-43-9	0.15	0.15	0.35	0.21	0.2	0.14	0.21	0.13	0.14	0.094	0.22	0.25	0.15	0.26	25	200	8.8
Chromium, Total[d]	7440-47-3	13.8	12.6	12.9	15.9	26.9	11.1	9.2	12.8	11.5	9.7	20.3	18.0	12.2	11.2	44,000/87[d]	100,000/650[d]	1,000,000,000/36[d]
Lead, Total	7439-92-1	10.0	12.9	20.6	38.0	15.9	6.5	22.4	17.4	10.5	8.4	60.0	44.9	17.7	34.4	300	700	2,700
Mercury, Total	7439-97-6	0.025	<0.022	0.031	0.026	<0.019	0.16	0.02	0.024	<0.021	<0.019	0.055	0.03	0.028	0.026	0.5	1.5	3.3
Selenium, Total	7782-49-2	<0.55	<0.53	<0.54	<0.52	<0.55	<0.51	<0.42	<0.57	<0.49	<0.48	<0.59	<0.55	<0.51	<0.46	160	1,300	2.6
Silver, Total	7440-22-4	<0.55	<0.53	<0.54	<0.52	<0.55	<0.51	<0.42	<0.57	<0.49	<0.48	<0.59	<0.55	<0.51	<0.46	160	1,300	7.9
Other Parameters (mg/kg)																		
Diesel Range Organics (DRO)	---	25.7 [7]	16.3 [7]	17.9 [7]	<8.2	18.6 [7]	<8.2	27.8 [7]	93.3 [4]	19.3 [7]	10.8 [7]	13.0 [7]	24.8 [7]	35.7 [7]	37.5 [7]	NE	NE	NE
Gasoline Range Organics (GRO)	---	<11.8	<11.5	<12.0	<12.0	<11.1	<11.9	<10.5	<11.8	<11.8	<11.6	<13.0	<12.6	<12.0	<10.4	NE	NE	NE

Notes

SRVs updated June 2009 and SLVs updated June 2013.

mg/kg = Milligrams per kilogram.

< = Not detected at or above the laboratory reporting limit indicated.

--- = Not analyzed or calculated for this parameter or not applicable.

RL = Reporting limits for other parameters that are not listed individually in this table because their concentrations were below reporting limits provided in the laboratory report.

NE = Regulatory limit not established for this parameter.

cPAH = Individual regulatory limit not established for this carcinogenic PAH; included in BaP equivalent calculation.

[c] = Benzo(a)pyrene (BaP) equivalent is calculated based on the concentration and weighted toxicity of cPAHs; Minnesota Pollution Control Agency; 2009. If no cPAHs were detected above reasonable laboratory reporting limits the BaP equivalent is reported as 0 mg/kg per MPCA Remediation Division Policy; June 2011.

[d] = Reported result is total chromium, regulatory limit for chromium III and chromium VI are provided.

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

[3] [M1] Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery. - [R1] RPD value was outside control limits.

[4] [M3] Matrix spike recovery was outside laboratory control limits due to matrix interferences. - [R2] RPD value was outside control limits due to matrix

[5] [M6] Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

[7] [T6] High boiling point hydrocarbons are present in the sample.

Exceeds Residential SRV
Exceeds Industrial SRV
Exceeds Screening SLV

BRAUN INTERTEC

Pace Analytical Services, Inc.
1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

July 22, 2016

Jeremy Hansen
Braun Intertec Corp.
11001 Hampshire Ave S
Bloomington, MN 55438

RE: Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Dear Jeremy Hansen:
Enclosed are the analytical results for sample(s) received by the laboratory on July 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.

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

Sincerely,

Oyeyemi Odujole for
Dan Nguyen
dan.nguyen@pacelabs.com
Project Manager

Enclosures

cc: Mark Keefer, Braun Intertec

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(612)607-1700

CERTIFICATIONS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Minnesota Certification IDs

1700 Elm Street SE Suite 200, Minneapolis, MN 55414
525 N 8th Street, Salina, KS 67401
A2LA Certification #: 2926.01
Alaska Certification #: UST-078
Alaska Certification #MN00064
Alabama Certification #40770
Arizona Certification #: AZ-0014
Arkansas Certification #: 88-0680
California Certification #: 01155CA
Colorado Certification #Pace
Connecticut Certification #: PH-0256
EPA Region 8 Certification #: 8TMS-L
Florida/NELAP Certification #: E87605
Guam Certification #:14-008r
Georgia Certification #: 959
Georgia EPD #: Pace
Idaho Certification #: MN00064
Hawaii Certification #MN00064
Illinois Certification #: 200011
Indiana Certification#C-MN-01
Iowa Certification #: 368
Kansas Certification #: E-10167
Kentucky Dept of Envi. Protection - DW #90062
Kentucky Dept of Envi. Protection - WW #:90062
Louisiana DEQ Certification #: 3086
Louisiana DHH #: LA140001
Maine Certification #: 2013011
Maryland Certification #: 322
Michigan DEPH Certification #: 9909
Minnesota Certification #: 027-053-137
Mississippi Certification #: Pace
Montana Certification #: MT0092
Nevada Certification #: MN_00064
Nebraska Certification #: Pace
New Jersey Certification #: MN-002
New York Certification #: 11647
North Carolina Certification #: 530
North Carolina State Public Health #: 27700
North Dakota Certification #: R-036
Ohio EPA #: 4150
Ohio VAP Certification #: CL101
Oklahoma Certification #: 9507
Oregon Certification #: MN200001
Oregon Certification #: MN300001
Pennsylvania Certification #: 68-00563
Puerto Rico Certification
Saipan (CNMI) #:MP0003
South Carolina #:74003001
Texas Certification #: T104704192
Tennessee Certification #: 02818
Utah Certification #: MN000642013-4
Virginia DGS Certification #: 251
Virginia/VELAP Certification #: Pace
Washington Certification #: C486
West Virginia Certification #: 382
West Virginia DHHR #:9952C
Wisconsin Certification #: 999407970

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SAMPLE SUMMARY

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	Matrix	Date Collected	Date Received
10355704001	**SP-A1**	Solid	07/14/16 07:50	07/15/16 17:10
10355704002	**SP-A2**	Solid	07/14/16 08:10	07/15/16 17:10
10355704003	**SP-C1**	Solid	07/14/16 08:30	07/15/16 17:10
10355704004	**SP-C2**	Solid	07/14/16 08:55	07/15/16 17:10
10355704005	**SP-C3**	Solid	07/14/16 09:05	07/15/16 17:10
10355704006	**SP-C4**	Solid	07/14/16 09:20	07/15/16 17:10
10355704007	**SP-G1**	Solid	07/14/16 10:30	07/15/16 17:10
10355704008	**SP-I1**	Solid	07/14/16 10:55	07/15/16 17:10
10355704009	**SP-I2**	Solid	07/14/16 11:05	07/15/16 17:10
10355704010	**SP-I3**	Solid	07/14/16 11:15	07/15/16 17:10
10355704011	**SP-L1**	Solid	07/14/16 11:40	07/15/16 17:10
10355704012	**SP-L2**	Solid	07/14/16 11:50	07/15/16 17:10
10355704013	**SP-L3**	Solid	07/14/16 12:00	07/15/16 17:10
10355704014	**SP-N1**	Solid	07/14/16 10:40	07/15/16 17:10
10355704015	**TB**	Solid	07/14/16 00:00	07/15/16 17:10

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SAMPLE ANALYTE COUNT

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
10355704001	**SP-A1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704002	**SP-A2**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704003	**SP-C1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704004	**SP-C2**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704005	**SP-C3**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704006	**SP-C4**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704007	**SP-G1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704008	**SP-I1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	MRB	70	PASI-M
10355704009	**SP-I2**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704010	**SP-I3**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704011	**SP-L1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M

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SAMPLE ANALYTE COUNT

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704012	**SP-L2**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704013	**SP-L3**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704014	**SP-N1**	WI MOD DRO	MT	2	PASI-M
		WI MOD GRO	KMZ	2	PASI-M
		EPA 6020A	TT3	7	PASI-M
		EPA 7471B	LMW	1	PASI-M
		ASTM D2974	JDL	1	PASI-M
		EPA 8270D by SIM	AS1	19	PASI-M
		EPA 8260B	CD2	70	PASI-M
10355704015	**TB**	EPA 8260B	CD2	70	PASI-M

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun-BLM
Date: July 22, 2016

General Information:
14 samples were analyzed for WI MOD DRO. 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 WI MOD DRO 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.

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.

Additional Comments:

Analyte Comments:

QC Batch: 425794

T6: High boiling point hydrocarbons are present in the sample.

- MS (Lab ID: 2318797)
  - WDRO C10-C28
- MSD (Lab ID: 2318798)
  - WDRO C10-C28
- SP-A1 (Lab ID: 10355704001)
  - WDRO C10-C28
- SP-A2 (Lab ID: 10355704002)
  - WDRO C10-C28
- SP-C1 (Lab ID: 10355704003)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **WI MOD DRO**
Description: WIDRO GCS
Client: Braun-BLM
Date: July 22, 2016

Analyte Comments:

QC Batch: 425794

T6: High boiling point hydrocarbons are present in the sample.

- SP-C3 (Lab ID: 10355704005)
  - WDRO C10-C28
- SP-G1 (Lab ID: 10355704007)
  - WDRO C10-C28
- SP-I1 (Lab ID: 10355704008)
  - WDRO C10-C28
- SP-I2 (Lab ID: 10355704009)
  - WDRO C10-C28
- SP-I3 (Lab ID: 10355704010)
  - WDRO C10-C28
- SP-L1 (Lab ID: 10355704011)
  - WDRO C10-C28
- SP-L2 (Lab ID: 10355704012)
  - WDRO C10-C28
- SP-L3 (Lab ID: 10355704013)
  - WDRO C10-C28
- SP-N1 (Lab ID: 10355704014)
  - WDRO C10-C28

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **WI MOD GRO**
Description: WIGRO GCV
Client: Braun-BLM
Date: July 22, 2016

General Information:
14 samples were analyzed for WI MOD GRO. 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 5030 Medium Soil 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.

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.

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

Additional Comments:

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **EPA 6020A**
Description: 6020A MET ICPMS
Client: Braun-BLM
Date: July 22, 2016

General Information:
14 samples were analyzed for EPA 6020A. 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 3050 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.

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:

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **EPA 7471B**
Description: 7471B Mercury
Client: Braun-BLM
Date: July 22, 2016

General Information:
14 samples were analyzed for EPA 7471B. 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 7471B 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:

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **EPA 8270D by SIM**
Description: 8270D MSSV PAH by SIM
Client: Braun-BLM
Date: July 22, 2016

General Information:
14 samples were analyzed for EPA 8270D by SIM. 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 3550 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.

Additional Comments:

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: Braun-BLM
Date: July 22, 2016

General Information:
15 samples were 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.

Sample Preparation:
The samples were prepared in accordance with EPA 5035/5030B with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

QC Batch: 425798

SS: This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.

- LCS (Lab ID: 2318809)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MS (Lab ID: 2318811)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MSD (Lab ID: 2318812)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

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

QC Batch: 425757

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2318717)
  - Chloroethane
- LCSD (Lab ID: 2318718)
  - Chloroethane
- MS (Lab ID: 2318769)
  - Chloroethane
- MSD (Lab ID: 2318770)
  - Chloroethane

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PROJECT NARRATIVE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Method: **EPA 8260B**
Description: 8260B MSV 5030 Med Level
Client: Braun-BLM
Date: July 22, 2016

QC Batch: 425798

CH: The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.

- LCS (Lab ID: 2318809)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MS (Lab ID: 2318811)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane
- MSD (Lab ID: 2318812)
  - Bromomethane
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

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: 425798

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 2318809)
  - Chloroethane
  - Dichlorofluoromethane
  - Trichlorofluoromethane

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

Additional Comments:

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

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A1 **Lab ID: 10355704001** Collected: 07/14/16 07:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**25.7**	mg/kg	19.1	2	07/18/16 09:45	07/21/16 18:33		T6
Surrogates								
n-Triacontane (S)	80	%.	50-150	2	07/18/16 09:45	07/21/16 18:33	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.8	1	07/18/16 14:40	07/18/16 22:32		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	80-150	1	07/18/16 14:40	07/18/16 22:32	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**4.5**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:48	7440-38-2	
Barium	**73.2**	mg/kg	0.33	20	07/20/16 09:50	07/20/16 20:48	7440-39-3	
Cadmium	**0.15**	mg/kg	0.088	20	07/20/16 09:50	07/20/16 20:48	7440-43-9	
Chromium	**13.8**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:48	7440-47-3	
Lead	**10.0**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 20:48	7439-92-1	
Selenium	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:48	7782-49-2	
Silver	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:48	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.025**	mg/kg	0.023	1	07/18/16 11:55	07/19/16 16:20	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**14.5**	%	0.10	1		07/20/16 13:48		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	120-12-7	
Benzo(a)anthracene	**0.019**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	56-55-3	
Benzo(a)pyrene	**0.024**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	50-32-8	
Benzo(b)fluoranthene	**0.028**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	205-99-2	
Benzo(g,h,i)perylene	**0.015**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	191-24-2	
Benzo(k)fluoranthene	**0.015**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	207-08-9	
Chrysene	**0.023**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	53-70-3	
Fluoranthene	**0.032**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.013**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	91-20-3	
Phenanthrene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	85-01-8	
Pyrene	**0.031**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.032**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 19:42		
Surrogates								
2-Fluorobiphenyl (S)	69	%.	41-125	1	07/19/16 07:42	07/20/16 19:42	321-60-8	
p-Terphenyl-d14 (S)	85	%.	39-125	1	07/19/16 07:42	07/20/16 19:42	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A1 **Lab ID: 10355704001** Collected: 07/14/16 07:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.1	1	07/18/16 09:53	07/18/16 17:08	67-64-1	
Allyl chloride	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	107-05-1	
Benzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	71-43-2	
Bromobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	108-86-1	
Bromochloromethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	74-97-5	
Bromodichloromethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	75-27-4	
Bromoform	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 17:08	75-25-2	
Bromomethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 17:08	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 17:08	78-93-3	
n-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	56-23-5	
Chlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	108-90-7	
Chloroethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 17:08	75-00-3	
Chloroform	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	67-66-3	
Chloromethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 17:08	96-12-8	
Dibromochloromethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	106-93-4	
Dibromomethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 17:08	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	60-29-7	
Ethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 17:08	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	99-87-6	
Methylene Chloride	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 17:08	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A1 **Lab ID: 10355704001** Collected: 07/14/16 07:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	1634-04-4	
Naphthalene	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	91-20-3	
n-Propylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	103-65-1	
Styrene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	79-34-5	
Tetrachloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.3	1	07/18/16 09:53	07/18/16 17:08	109-99-9	
Toluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	79-00-5	
Trichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.23	1	07/18/16 09:53	07/18/16 17:08	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 17:08	108-67-8	
Vinyl chloride	ND	mg/kg	0.023	1	07/18/16 09:53	07/18/16 17:08	75-01-4	
Xylene (Total)	ND	mg/kg	0.17	1	07/18/16 09:53	07/18/16 17:08	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-129	1	07/18/16 09:53	07/18/16 17:08	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1	07/18/16 09:53	07/18/16 17:08	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 17:08	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A2 **Lab ID: 10355704002** Collected: 07/14/16 08:10 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**16.3**	mg/kg	8.5	1	07/18/16 09:45	07/21/16 19:07		T6
Surrogates								
n-Triacontane (S)	62	%.	50-150	1	07/18/16 09:45	07/21/16 19:07	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.5	1	07/18/16 14:40	07/18/16 22:54		
Surrogates								
a,a,a-Trifluorotoluene (S)	95	%.	80-150	1	07/18/16 14:40	07/18/16 22:54	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**4.0**	mg/kg	0.53	20	07/20/16 09:50	07/20/16 20:51	7440-38-2	
Barium	**68.1**	mg/kg	0.32	20	07/20/16 09:50	07/20/16 20:51	7440-39-3	
Cadmium	**0.15**	mg/kg	0.085	20	07/20/16 09:50	07/20/16 20:51	7440-43-9	
Chromium	**12.6**	mg/kg	0.53	20	07/20/16 09:50	07/20/16 20:51	7440-47-3	
Lead	**12.9**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 20:51	7439-92-1	
Selenium	ND	mg/kg	0.53	20	07/20/16 09:50	07/20/16 20:51	7782-49-2	
Silver	ND	mg/kg	0.53	20	07/20/16 09:50	07/20/16 20:51	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.022	1	07/18/16 11:55	07/19/16 16:22	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**14.8**	%	0.10	1		07/20/16 13:48		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	120-12-7	
Benzo(a)anthracene	**0.021**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	56-55-3	
Benzo(a)pyrene	**0.021**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	50-32-8	
Benzo(b)fluoranthene	**0.026**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	205-99-2	
Benzo(g,h,i)perylene	**0.012**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	191-24-2	
Benzo(k)fluoranthene	**0.013**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	207-08-9	
Chrysene	**0.026**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	53-70-3	
Fluoranthene	**0.049**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	91-20-3	
Phenanthrene	**0.014**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	85-01-8	
Pyrene	**0.048**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.027**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:03		
Surrogates								
2-Fluorobiphenyl (S)	68	%.	41-125	1	07/19/16 07:42	07/20/16 20:03	321-60-8	
p-Terphenyl-d14 (S)	85	%.	39-125	1	07/19/16 07:42	07/20/16 20:03	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A2 **Lab ID: 10355704002** Collected: 07/14/16 08:10 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 09:53	07/18/16 17:25	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	107-05-1	
Benzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	71-43-2	
Bromobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	108-86-1	
Bromochloromethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	75-27-4	
Bromoform	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 17:25	75-25-2	
Bromomethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 17:25	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 17:25	78-93-3	
n-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	56-23-5	
Chlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	108-90-7	
Chloroethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 17:25	75-00-3	
Chloroform	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 17:25	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	106-93-4	
Dibromomethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 17:25	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	60-29-7	
Ethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 17:25	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 17:25	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-A2 **Lab ID: 10355704002** Collected: 07/14/16 08:10 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	91-20-3	
n-Propylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	103-65-1	
Styrene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	79-34-5	
Tetrachloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 09:53	07/18/16 17:25	109-99-9	
Toluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	79-00-5	
Trichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:25	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 17:25	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 09:53	07/18/16 17:25	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 09:53	07/18/16 17:25	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	102	%.	75-129	1	07/18/16 09:53	07/18/16 17:25	17060-07-0	
Toluene-d8 (S)	98	%.	75-125	1	07/18/16 09:53	07/18/16 17:25	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 17:25	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C1 **Lab ID: 10355704003** Collected: 07/14/16 08:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**17.9**	mg/kg	9.0	1	07/18/16 09:45	07/21/16 19:14		T6
Surrogates								
n-Triacontane (S)	65	%.	50-150	1	07/18/16 09:45	07/21/16 19:14	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.0	1	07/18/16 14:40	07/18/16 23:18		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	80-150	1	07/18/16 14:40	07/18/16 23:18	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**4.0**	mg/kg	0.54	20	07/20/16 09:50	07/20/16 20:54	7440-38-2	
Barium	**97.1**	mg/kg	0.32	20	07/20/16 09:50	07/20/16 20:54	7440-39-3	
Cadmium	**0.35**	mg/kg	0.086	20	07/20/16 09:50	07/20/16 20:54	7440-43-9	
Chromium	**12.9**	mg/kg	0.54	20	07/20/16 09:50	07/20/16 20:54	7440-47-3	
Lead	**20.6**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 20:54	7439-92-1	
Selenium	ND	mg/kg	0.54	20	07/20/16 09:50	07/20/16 20:54	7782-49-2	
Silver	ND	mg/kg	0.54	20	07/20/16 09:50	07/20/16 20:54	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.031**	mg/kg	0.023	1	07/18/16 11:55	07/19/16 16:24	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**14.9**	%	0.10	1		07/20/16 13:49		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**0.026**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	83-32-9	
Acenaphthylene	**0.012**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	208-96-8	
Anthracene	**0.074**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	120-12-7	
Benzo(a)anthracene	**0.20**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	56-55-3	
Benzo(a)pyrene	**0.22**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	50-32-8	
Benzo(b)fluoranthene	**0.25**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	205-99-2	
Benzo(g,h,i)perylene	**0.10**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	191-24-2	
Benzo(k)fluoranthene	**0.13**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	207-08-9	
Chrysene	**0.23**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	218-01-9	
Dibenz(a,h)anthracene	**0.037**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	53-70-3	
Fluoranthene	**0.36**	mg/kg	0.023	2	07/19/16 07:42	07/21/16 12:03	206-44-0	
Fluorene	**0.033**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.11**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	91-20-3	
Phenanthrene	**0.26**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	85-01-8	
Pyrene	**0.35**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.31**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 20:24		
Surrogates								
2-Fluorobiphenyl (S)	67	%.	41-125	1	07/19/16 07:42	07/20/16 20:24	321-60-8	
p-Terphenyl-d14 (S)	86	%.	39-125	1	07/19/16 07:42	07/20/16 20:24	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C1 **Lab ID: 10355704003** Collected: 07/14/16 08:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 09:53	07/18/16 17:43	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	107-05-1	
Benzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	71-43-2	
Bromobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	108-86-1	
Bromochloromethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	75-27-4	
Bromoform	ND	mg/kg	0.61	1	07/18/16 09:53	07/18/16 17:43	75-25-2	
Bromomethane	ND	mg/kg	0.61	1	07/18/16 09:53	07/18/16 17:43	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.31	1	07/18/16 09:53	07/18/16 17:43	78-93-3	
n-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	56-23-5	
Chlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	108-90-7	
Chloroethane	ND	mg/kg	0.61	1	07/18/16 09:53	07/18/16 17:43	75-00-3	
Chloroform	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.61	1	07/18/16 09:53	07/18/16 17:43	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	106-93-4	
Dibromomethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.61	1	07/18/16 09:53	07/18/16 17:43	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	60-29-7	
Ethylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.31	1	07/18/16 09:53	07/18/16 17:43	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.31	1	07/18/16 09:53	07/18/16 17:43	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C1 **Lab ID: 10355704003** Collected: 07/14/16 08:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	91-20-3	
n-Propylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	103-65-1	
Styrene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	79-34-5	
Tetrachloroethene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 09:53	07/18/16 17:43	109-99-9	
Toluene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	79-00-5	
Trichloroethene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 17:43	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 09:53	07/18/16 17:43	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 09:53	07/18/16 17:43	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 09:53	07/18/16 17:43	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-129	1	07/18/16 09:53	07/18/16 17:43	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1	07/18/16 09:53	07/18/16 17:43	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1	07/18/16 09:53	07/18/16 17:43	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C2 **Lab ID: 10355704004** Collected: 07/14/16 08:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.2	1	07/18/16 09:45	07/21/16 20:09		
Surrogates								
n-Triacontane (S)	58	%.	50-150	1	07/18/16 09:45	07/21/16 20:09	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.0	1	07/18/16 14:40	07/18/16 23:40		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	80-150	1	07/18/16 14:40	07/18/16 23:40	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**5.0**	mg/kg	0.52	20	07/20/16 09:50	07/20/16 20:57	7440-38-2	
Barium	**117**	mg/kg	0.31	20	07/20/16 09:50	07/20/16 20:57	7440-39-3	
Cadmium	**0.21**	mg/kg	0.083	20	07/20/16 09:50	07/20/16 20:57	7440-43-9	
Chromium	**15.9**	mg/kg	0.52	20	07/20/16 09:50	07/20/16 20:57	7440-47-3	
Lead	**38.0**	mg/kg	0.10	20	07/20/16 09:50	07/20/16 20:57	7439-92-1	
Selenium	ND	mg/kg	0.52	20	07/20/16 09:50	07/20/16 20:57	7782-49-2	
Silver	ND	mg/kg	0.52	20	07/20/16 09:50	07/20/16 20:57	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.026**	mg/kg	0.022	1	07/18/16 11:55	07/19/16 16:27	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**15.2**	%	0.10	1		07/20/16 13:49		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	205-99-2	
Benzo(g,h,i)perylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	191-24-2	
Benzo(k)fluoranthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	207-08-9	
Chrysene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	53-70-3	
Fluoranthene	**0.016**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	91-20-3	
Phenanthrene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	85-01-8	
Pyrene	**0.016**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 17:13		
Surrogates								
2-Fluorobiphenyl (S)	69	%.	41-125	1	07/19/16 07:42	07/20/16 17:13	321-60-8	
p-Terphenyl-d14 (S)	84	%.	39-125	1	07/19/16 07:42	07/20/16 17:13	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C2 **Lab ID: 10355704004** Collected: 07/14/16 08:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 09:53	07/18/16 18:00	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	107-05-1	
Benzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	71-43-2	
Bromobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	108-86-1	
Bromochloromethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	75-27-4	
Bromoform	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 18:00	75-25-2	
Bromomethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 18:00	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:00	78-93-3	
n-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	56-23-5	
Chlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	108-90-7	
Chloroethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 18:00	75-00-3	
Chloroform	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 18:00	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	106-93-4	
Dibromomethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 18:00	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	60-29-7	
Ethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:00	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:00	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C2 **Lab ID: 10355704004** Collected: 07/14/16 08:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	91-20-3	
n-Propylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	103-65-1	
Styrene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	79-34-5	
Tetrachloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 09:53	07/18/16 18:00	109-99-9	
Toluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	79-00-5	
Trichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:00	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 18:00	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 09:53	07/18/16 18:00	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 09:53	07/18/16 18:00	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-129	1	07/18/16 09:53	07/18/16 18:00	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 18:00	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	07/18/16 09:53	07/18/16 18:00	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C3 **Lab ID: 10355704005** Collected: 07/14/16 09:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**18.6**	mg/kg	9.4	1	07/18/16 09:45	07/21/16 19:00		T6
Surrogates								
n-Triacontane (S)	56	%.	50-150	1	07/18/16 09:45	07/21/16 19:00	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.1	1	07/18/16 14:40	07/19/16 00:03		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	80-150	1	07/18/16 14:40	07/19/16 00:03	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**4.0**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:59	7440-38-2	
Barium	**61.0**	mg/kg	0.33	20	07/20/16 09:50	07/20/16 20:59	7440-39-3	
Cadmium	**0.20**	mg/kg	0.088	20	07/20/16 09:50	07/20/16 20:59	7440-43-9	
Chromium	**26.9**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:59	7440-47-3	
Lead	**15.9**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 20:59	7439-92-1	
Selenium	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:59	7782-49-2	
Silver	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 20:59	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.019	1	07/18/16 11:55	07/19/16 16:29	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**10.9**	%	0.10	1		07/20/16 13:49		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	83-32-9	
Acenaphthylene	**0.018**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	208-96-8	
Anthracene	**0.026**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	120-12-7	
Benzo(a)anthracene	**0.095**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	56-55-3	
Benzo(a)pyrene	**0.11**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	50-32-8	
Benzo(b)fluoranthene	**0.14**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	205-99-2	
Benzo(g,h,i)perylene	**0.051**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	191-24-2	
Benzo(k)fluoranthene	**0.053**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	207-08-9	
Chrysene	**0.11**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	218-01-9	
Dibenz(a,h)anthracene	**0.019**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	53-70-3	
Fluoranthene	**0.17**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.052**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	91-20-3	
Phenanthrene	**0.051**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	85-01-8	
Pyrene	**0.14**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.16**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 20:46		
Surrogates								
2-Fluorobiphenyl (S)	71	%.	41-125	1	07/19/16 07:42	07/20/16 20:46	321-60-8	
p-Terphenyl-d14 (S)	83	%.	39-125	1	07/19/16 07:42	07/20/16 20:46	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C3 **Lab ID: 10355704005** Collected: 07/14/16 09:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.1	1	07/18/16 09:53	07/18/16 18:17	67-64-1	
Allyl chloride	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	107-05-1	
Benzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	71-43-2	
Bromobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	108-86-1	
Bromochloromethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	74-97-5	
Bromodichloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	75-27-4	
Bromoform	ND	mg/kg	0.54	1	07/18/16 09:53	07/18/16 18:17	75-25-2	
Bromomethane	ND	mg/kg	0.54	1	07/18/16 09:53	07/18/16 18:17	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.27	1	07/18/16 09:53	07/18/16 18:17	78-93-3	
n-Butylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	56-23-5	
Chlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	108-90-7	
Chloroethane	ND	mg/kg	0.54	1	07/18/16 09:53	07/18/16 18:17	75-00-3	
Chloroform	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	67-66-3	
Chloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.54	1	07/18/16 09:53	07/18/16 18:17	96-12-8	
Dibromochloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	106-93-4	
Dibromomethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.54	1	07/18/16 09:53	07/18/16 18:17	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	60-29-7	
Ethylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.27	1	07/18/16 09:53	07/18/16 18:17	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	99-87-6	
Methylene Chloride	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.27	1	07/18/16 09:53	07/18/16 18:17	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C3 **Lab ID: 10355704005** Collected: 07/14/16 09:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	1634-04-4	
Naphthalene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	91-20-3	
n-Propylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	103-65-1	
Styrene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	79-34-5	
Tetrachloroethene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.2	1	07/18/16 09:53	07/18/16 18:17	109-99-9	
Toluene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	79-00-5	
Trichloroethene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:17	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.054	1	07/18/16 09:53	07/18/16 18:17	108-67-8	
Vinyl chloride	ND	mg/kg	0.022	1	07/18/16 09:53	07/18/16 18:17	75-01-4	
Xylene (Total)	ND	mg/kg	0.16	1	07/18/16 09:53	07/18/16 18:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-129	1	07/18/16 09:53	07/18/16 18:17	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1	07/18/16 09:53	07/18/16 18:17	2037-26-5	
4-Bromofluorobenzene (S)	103	%.	75-125	1	07/18/16 09:53	07/18/16 18:17	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C4 **Lab ID: 10355704006** Collected: 07/14/16 09:20 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	ND	mg/kg	8.2	1	07/18/16 09:45	07/21/16 19:41		
Surrogates								
n-Triacontane (S)	71	%.	50-150	1	07/18/16 09:45	07/21/16 19:41	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.9	1	07/18/16 14:40	07/19/16 00:25		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	80-150	1	07/18/16 14:40	07/19/16 00:25	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**3.0**	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:02	7440-38-2	
Barium	**63.2**	mg/kg	0.31	20	07/20/16 09:50	07/20/16 21:02	7440-39-3	
Cadmium	**0.14**	mg/kg	0.082	20	07/20/16 09:50	07/20/16 21:02	7440-43-9	
Chromium	**11.1**	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:02	7440-47-3	
Lead	**6.5**	mg/kg	0.10	20	07/20/16 09:50	07/20/16 21:02	7439-92-1	
Selenium	ND	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:02	7782-49-2	
Silver	ND	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:02	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.16**	mg/kg	0.023	1	07/18/16 11:55	07/19/16 16:31	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**14.2**	%	0.10	1		07/20/16 14:27		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	208-96-8	
Anthracene	**0.013**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	120-12-7	
Benzo(a)anthracene	**0.094**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	56-55-3	
Benzo(a)pyrene	**0.091**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	50-32-8	
Benzo(b)fluoranthene	**0.11**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	205-99-2	
Benzo(g,h,i)perylene	**0.032**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	191-24-2	
Benzo(k)fluoranthene	**0.043**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	207-08-9	
Chrysene	**0.082**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	218-01-9	
Dibenz(a,h)anthracene	**0.014**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	53-70-3	
Fluoranthene	**0.13**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.034**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	91-20-3	
Phenanthrene	**0.021**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	85-01-8	
Pyrene	**0.11**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.13**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:07		
Surrogates								
2-Fluorobiphenyl (S)	76	%.	41-125	1	07/19/16 07:42	07/20/16 21:07	321-60-8	
p-Terphenyl-d14 (S)	89	%.	39-125	1	07/19/16 07:42	07/20/16 21:07	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C4 **Lab ID: 10355704006** Collected: 07/14/16 09:20 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 09:53	07/18/16 18:35	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	107-05-1	
Benzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	71-43-2	
Bromobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	108-86-1	
Bromochloromethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	75-27-4	
Bromoform	ND	mg/kg	0.59	1	07/18/16 09:53	07/18/16 18:35	75-25-2	
Bromomethane	ND	mg/kg	0.59	1	07/18/16 09:53	07/18/16 18:35	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:35	78-93-3	
n-Butylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	56-23-5	
Chlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	108-90-7	
Chloroethane	ND	mg/kg	0.59	1	07/18/16 09:53	07/18/16 18:35	75-00-3	
Chloroform	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.59	1	07/18/16 09:53	07/18/16 18:35	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	106-93-4	
Dibromomethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.59	1	07/18/16 09:53	07/18/16 18:35	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	60-29-7	
Ethylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:35	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 18:35	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-C4 **Lab ID: 10355704006** Collected: 07/14/16 09:20 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Methyl-tert-butyl ether	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	91-20-3	
n-Propylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	103-65-1	
Styrene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	79-34-5	
Tetrachloroethene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 09:53	07/18/16 18:35	109-99-9	
Toluene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	79-00-5	
Trichloroethene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 18:35	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.059	1	07/18/16 09:53	07/18/16 18:35	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 09:53	07/18/16 18:35	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 09:53	07/18/16 18:35	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-129	1	07/18/16 09:53	07/18/16 18:35	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1	07/18/16 09:53	07/18/16 18:35	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 18:35	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-G1 **Lab ID: 10355704007** Collected: 07/14/16 10:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**27.8**	mg/kg	16.9	2	07/18/16 09:45	07/21/16 18:26		T6
Surrogates								
n-Triacontane (S)	68	%.	50-150	2	07/18/16 09:45	07/21/16 18:26	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	10.5	1	07/18/16 14:40	07/19/16 00:47		
Surrogates								
a,a,a-Trifluorotoluene (S)	94	%.	80-150	1	07/18/16 14:40	07/19/16 00:47	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**2.8**	mg/kg	0.42	20	07/20/16 09:50	07/20/16 21:05	7440-38-2	
Barium	**34.2**	mg/kg	0.25	20	07/20/16 09:50	07/20/16 21:05	7440-39-3	
Cadmium	**0.21**	mg/kg	0.068	20	07/20/16 09:50	07/20/16 21:05	7440-43-9	
Chromium	**9.2**	mg/kg	0.42	20	07/20/16 09:50	07/20/16 21:05	7440-47-3	
Lead	**22.4**	mg/kg	0.085	20	07/20/16 09:50	07/20/16 21:05	7439-92-1	
Selenium	ND	mg/kg	0.42	20	07/20/16 09:50	07/20/16 21:05	7782-49-2	
Silver	ND	mg/kg	0.42	20	07/20/16 09:50	07/20/16 21:05	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.020**	mg/kg	0.020	1	07/18/16 11:55	07/19/16 16:37	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**9.3**	%	0.10	1		07/20/16 14:28		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	83-32-9	
Acenaphthylene	**0.011**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	208-96-8	
Anthracene	**0.021**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	120-12-7	
Benzo(a)anthracene	**0.11**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	56-55-3	
Benzo(a)pyrene	**0.13**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	50-32-8	
Benzo(b)fluoranthene	**0.17**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	205-99-2	
Benzo(g,h,i)perylene	**0.047**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	191-24-2	
Benzo(k)fluoranthene	**0.075**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	207-08-9	
Chrysene	**0.12**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	218-01-9	
Dibenz(a,h)anthracene	**0.020**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	53-70-3	
Fluoranthene	**0.21**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.053**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	91-20-3	
Phenanthrene	**0.074**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	85-01-8	
Pyrene	**0.17**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.18**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 21:28		
Surrogates								
2-Fluorobiphenyl (S)	74	%.	41-125	1	07/19/16 07:42	07/20/16 21:28	321-60-8	
p-Terphenyl-d14 (S)	87	%.	39-125	1	07/19/16 07:42	07/20/16 21:28	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-G1 **Lab ID: 10355704007** Collected: 07/14/16 10:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.1	1	07/18/16 09:53	07/18/16 18:52	67-64-1	
Allyl chloride	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	107-05-1	
Benzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	71-43-2	
Bromobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	108-86-1	
Bromochloromethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	74-97-5	
Bromodichloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	75-27-4	
Bromoform	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 18:52	75-25-2	
Bromomethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 18:52	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 18:52	78-93-3	
n-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	56-23-5	
Chlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	108-90-7	
Chloroethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 18:52	75-00-3	
Chloroform	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	67-66-3	
Chloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 18:52	96-12-8	
Dibromochloromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	106-93-4	
Dibromomethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.56	1	07/18/16 09:53	07/18/16 18:52	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	60-29-7	
Ethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 18:52	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	99-87-6	
Methylene Chloride	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.28	1	07/18/16 09:53	07/18/16 18:52	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-G1 **Lab ID: 10355704007** Collected: 07/14/16 10:30 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	1634-04-4	
Naphthalene	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	91-20-3	
n-Propylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	103-65-1	
Styrene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	79-34-5	
Tetrachloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.2	1	07/18/16 09:53	07/18/16 18:52	109-99-9	
Toluene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	79-00-5	
Trichloroethene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.22	1	07/18/16 09:53	07/18/16 18:52	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 09:53	07/18/16 18:52	108-67-8	
Vinyl chloride	ND	mg/kg	0.022	1	07/18/16 09:53	07/18/16 18:52	75-01-4	
Xylene (Total)	ND	mg/kg	0.17	1	07/18/16 09:53	07/18/16 18:52	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-129	1	07/18/16 09:53	07/18/16 18:52	17060-07-0	
Toluene-d8 (S)	99	%.	75-125	1	07/18/16 09:53	07/18/16 18:52	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 18:52	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I1 **Lab ID: 10355704008** Collected: 07/14/16 10:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**93.3**	mg/kg	44.1	5	07/18/16 09:45	07/21/16 18:06		M3,R2, T6
Surrogates								
n-Triacontane (S)	74	%.	50-150	5	07/18/16 09:45	07/21/16 18:06	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.8	1	07/18/16 14:40	07/18/16 17:59		
Surrogates								
a,a,a-Trifluorotoluene (S)	92	%.	80-150	1	07/18/16 14:40	07/18/16 17:59	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**3.6**	mg/kg	0.57	20	07/20/16 09:50	07/20/16 21:08	7440-38-2	
Barium	**84.5**	mg/kg	0.34	20	07/20/16 09:50	07/20/16 21:08	7440-39-3	M6
Cadmium	**0.13**	mg/kg	0.091	20	07/20/16 09:50	07/20/16 21:08	7440-43-9	
Chromium	**12.8**	mg/kg	0.57	20	07/20/16 09:50	07/20/16 21:08	7440-47-3	
Lead	**17.4**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 21:08	7439-92-1	
Selenium	ND	mg/kg	0.57	20	07/20/16 09:50	07/20/16 21:08	7782-49-2	
Silver	ND	mg/kg	0.57	20	07/20/16 09:50	07/20/16 21:08	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.024**	mg/kg	0.021	1	07/18/16 11:55	07/19/16 16:39	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**15.2**	%	0.10	1		07/20/16 14:28		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	120-12-7	
Benzo(a)anthracene	**0.026**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	56-55-3	M1
Benzo(a)pyrene	**0.031**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	50-32-8	M1
Benzo(b)fluoranthene	**0.039**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	205-99-2	M1
Benzo(g,h,i)perylene	**0.013**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	191-24-2	
Benzo(k)fluoranthene	**0.021**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	207-08-9	M1,R1
Chrysene	**0.034**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	218-01-9	M1
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	53-70-3	
Fluoranthene	**0.051**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	206-44-0	M1,R1
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.014**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	91-20-3	
Phenanthrene	**0.014**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	85-01-8	M1,R1
Pyrene	**0.043**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50	129-00-0	M1
Total BaP Eq. MN 2006sh. ND=0	**0.042**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 21:50		
Surrogates								
2-Fluorobiphenyl (S)	68	%.	41-125	1	07/19/16 07:42	07/20/16 21:50	321-60-8	
p-Terphenyl-d14 (S)	86	%.	39-125	1	07/19/16 07:42	07/20/16 21:50	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I1 **Lab ID: 10355704008** Collected: 07/14/16 10:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 09:53	07/18/16 19:09	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	107-05-1	
Benzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	71-43-2	M1
Bromobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	108-86-1	
Bromochloromethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	74-97-5	M1
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	75-27-4	
Bromoform	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 19:09	75-25-2	
Bromomethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 19:09	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 19:09	78-93-3	M1
n-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	56-23-5	
Chlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	108-90-7	M1
Chloroethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 19:09	75-00-3	
Chloroform	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	67-66-3	M1
Chloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 19:09	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	106-93-4	
Dibromomethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	75-34-3	M1
1,2-Dichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	107-06-2	M1
1,1-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	156-59-2	M1
trans-1,2-Dichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.60	1	07/18/16 09:53	07/18/16 19:09	75-43-4	
1,2-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	78-87-5	M1
1,3-Dichloropropane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	563-58-6	M1
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	60-29-7	
Ethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 19:09	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 09:53	07/18/16 19:09	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I1 **Lab ID: 10355704008** Collected: 07/14/16 10:55 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	91-20-3	
n-Propylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	103-65-1	
Styrene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	79-34-5	
Tetrachloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 09:53	07/18/16 19:09	109-99-9	
Toluene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	71-55-6	M1
1,1,2-Trichloroethane	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	79-00-5	
Trichloroethene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	75-69-4	
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 09:53	07/18/16 19:09	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.060	1	07/18/16 09:53	07/18/16 19:09	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 09:53	07/18/16 19:09	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 09:53	07/18/16 19:09	1330-20-7	MS
Surrogates								
1,2-Dichloroethane-d4 (S)	103	%.	75-129	1	07/18/16 09:53	07/18/16 19:09	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1	07/18/16 09:53	07/18/16 19:09	2037-26-5	
4-Bromofluorobenzene (S)	102	%.	75-125	1	07/18/16 09:53	07/18/16 19:09	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I2 **Lab ID: 10355704009** Collected: 07/14/16 11:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**19.3**	mg/kg	7.7	1	07/18/16 09:45	07/21/16 19:35		T6
Surrogates								
n-Triacontane (S)	71	%.	50-150	1	07/18/16 09:45	07/21/16 19:35	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.8	1	07/18/16 14:40	07/19/16 01:10		
Surrogates								
a,a,a-Trifluorotoluene (S)	93	%.	80-150	1	07/18/16 14:40	07/19/16 01:10	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**2.4**	mg/kg	0.49	20	07/20/16 09:50	07/20/16 21:33	7440-38-2	
Barium	**52.8**	mg/kg	0.30	20	07/20/16 09:50	07/20/16 21:33	7440-39-3	
Cadmium	**0.14**	mg/kg	0.079	20	07/20/16 09:50	07/20/16 21:33	7440-43-9	
Chromium	**11.5**	mg/kg	0.49	20	07/20/16 09:50	07/20/16 21:33	7440-47-3	
Lead	**10.5**	mg/kg	0.099	20	07/20/16 09:50	07/20/16 21:33	7439-92-1	
Selenium	ND	mg/kg	0.49	20	07/20/16 09:50	07/20/16 21:33	7782-49-2	
Silver	ND	mg/kg	0.49	20	07/20/16 09:50	07/20/16 21:33	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.021	1	07/18/16 11:55	07/19/16 16:46	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**13.4**	%	0.10	1		07/21/16 10:17		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	208-96-8	
Anthracene	**0.022**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	120-12-7	
Benzo(a)anthracene	**0.075**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	56-55-3	
Benzo(a)pyrene	**0.079**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	50-32-8	
Benzo(b)fluoranthene	**0.087**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	205-99-2	
Benzo(g,h,i)perylene	**0.024**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	191-24-2	
Benzo(k)fluoranthene	**0.051**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	207-08-9	
Chrysene	**0.070**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	53-70-3	
Fluoranthene	**0.12**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.029**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	91-20-3	
Phenanthrene	**0.043**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	85-01-8	
Pyrene	**0.11**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.10**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 22:53		
Surrogates								
2-Fluorobiphenyl (S)	72	%.	41-125	1	07/19/16 07:42	07/20/16 22:53	321-60-8	
p-Terphenyl-d14 (S)	91	%.	39-125	1	07/19/16 07:42	07/20/16 22:53	1718-51-0	

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1700 Elm Street - Suite 200
Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I2 **Lab ID: 10355704009** Collected: 07/14/16 11:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 10:18	07/18/16 14:56	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	107-05-1	
Benzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	71-43-2	
Bromobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	108-86-1	
Bromochloromethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	75-27-4	
Bromoform	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 14:56	75-25-2	
Bromomethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 14:56	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 14:56	78-93-3	
n-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	56-23-5	
Chlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	108-90-7	
Chloroethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 14:56	75-00-3	L3
Chloroform	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 14:56	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	106-93-4	
Dibromomethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 14:56	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	60-29-7	
Ethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 14:56	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 14:56	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I2 **Lab ID: 10355704009** Collected: 07/14/16 11:05 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	91-20-3	
n-Propylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	103-65-1	
Styrene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	79-34-5	
Tetrachloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 10:18	07/18/16 14:56	109-99-9	
Toluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	79-00-5	
Trichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 14:56	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 14:56	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 10:18	07/18/16 14:56	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 10:18	07/18/16 14:56	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-129	1	07/18/16 10:18	07/18/16 14:56	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1	07/18/16 10:18	07/18/16 14:56	2037-26-5	
4-Bromofluorobenzene (S)	101	%.	75-125	1	07/18/16 10:18	07/18/16 14:56	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I3 **Lab ID: 10355704010** Collected: 07/14/16 11:15 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**10.8**	mg/kg	9.2	1	07/18/16 09:45	07/21/16 19:55		T6
Surrogates								
n-Triacontane (S)	60	%.	50-150	1	07/18/16 09:45	07/21/16 19:55	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	11.6	1	07/18/16 14:40	07/19/16 01:32		
Surrogates								
a,a,a-Trifluorotoluene (S)	90	%.	80-150	1	07/18/16 14:40	07/19/16 01:32	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**2.1**	mg/kg	0.48	20	07/20/16 09:50	07/20/16 21:36	7440-38-2	
Barium	**52.7**	mg/kg	0.29	20	07/20/16 09:50	07/20/16 21:36	7440-39-3	
Cadmium	**0.094**	mg/kg	0.077	20	07/20/16 09:50	07/20/16 21:36	7440-43-9	
Chromium	**9.7**	mg/kg	0.48	20	07/20/16 09:50	07/20/16 21:36	7440-47-3	
Lead	**8.4**	mg/kg	0.097	20	07/20/16 09:50	07/20/16 21:36	7439-92-1	
Selenium	ND	mg/kg	0.48	20	07/20/16 09:50	07/20/16 21:36	7782-49-2	
Silver	ND	mg/kg	0.48	20	07/20/16 09:50	07/20/16 21:36	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	ND	mg/kg	0.019	1	07/18/16 11:55	07/19/16 16:48	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**11.6**	%	0.10	1		07/21/16 10:18		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	83-32-9	
Acenaphthylene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	208-96-8	
Anthracene	**0.012**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	120-12-7	
Benzo(a)anthracene	**0.044**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	56-55-3	
Benzo(a)pyrene	**0.056**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	50-32-8	
Benzo(b)fluoranthene	**0.070**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	205-99-2	
Benzo(g,h,i)perylene	**0.019**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	191-24-2	
Benzo(k)fluoranthene	**0.038**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	207-08-9	
Chrysene	**0.054**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	53-70-3	
Fluoranthene	**0.083**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	206-44-0	
Fluorene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.021**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	193-39-5	
Naphthalene	ND	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	91-20-3	
Phenanthrene	**0.030**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	85-01-8	
Pyrene	**0.071**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.074**	mg/kg	0.011	1	07/19/16 07:42	07/20/16 23:15		
Surrogates								
2-Fluorobiphenyl (S)	71	%.	41-125	1	07/19/16 07:42	07/20/16 23:15	321-60-8	
p-Terphenyl-d14 (S)	86	%.	39-125	1	07/19/16 07:42	07/20/16 23:15	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I3 **Lab ID: 10355704010** Collected: 07/14/16 11:15 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.1	1	07/18/16 10:18	07/18/16 15:13	67-64-1	
Allyl chloride	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	107-05-1	
Benzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	71-43-2	
Bromobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	108-86-1	
Bromochloromethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	74-97-5	
Bromodichloromethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	75-27-4	
Bromoform	ND	mg/kg	0.56	1	07/18/16 10:18	07/18/16 15:13	75-25-2	
Bromomethane	ND	mg/kg	0.56	1	07/18/16 10:18	07/18/16 15:13	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.28	1	07/18/16 10:18	07/18/16 15:13	78-93-3	
n-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	56-23-5	
Chlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	108-90-7	
Chloroethane	ND	mg/kg	0.56	1	07/18/16 10:18	07/18/16 15:13	75-00-3	L3
Chloroform	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	67-66-3	
Chloromethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.56	1	07/18/16 10:18	07/18/16 15:13	96-12-8	
Dibromochloromethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	106-93-4	
Dibromomethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.56	1	07/18/16 10:18	07/18/16 15:13	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	60-29-7	
Ethylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.28	1	07/18/16 10:18	07/18/16 15:13	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	99-87-6	
Methylene Chloride	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.28	1	07/18/16 10:18	07/18/16 15:13	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-I3 **Lab ID: 10355704010** Collected: 07/14/16 11:15 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	1634-04-4	
Naphthalene	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	91-20-3	
n-Propylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	103-65-1	
Styrene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	79-34-5	
Tetrachloroethene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.2	1	07/18/16 10:18	07/18/16 15:13	109-99-9	
Toluene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	79-00-5	
Trichloroethene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.22	1	07/18/16 10:18	07/18/16 15:13	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.056	1	07/18/16 10:18	07/18/16 15:13	108-67-8	
Vinyl chloride	ND	mg/kg	0.022	1	07/18/16 10:18	07/18/16 15:13	75-01-4	
Xylene (Total)	ND	mg/kg	0.17	1	07/18/16 10:18	07/18/16 15:13	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-129	1	07/18/16 10:18	07/18/16 15:13	17060-07-0	
Toluene-d8 (S)	100	%.	75-125	1	07/18/16 10:18	07/18/16 15:13	2037-26-5	
4-Bromofluorobenzene (S)	96	%.	75-125	1	07/18/16 10:18	07/18/16 15:13	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L1 **Lab ID: 10355704011** Collected: 07/14/16 11:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**13.0**	mg/kg	9.7	1	07/18/16 09:45	07/21/16 19:28		T6
Surrogates								
n-Triacontane (S)	86	%.	50-150	1	07/18/16 09:45	07/21/16 19:28	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	13.0	1	07/18/16 14:40	07/19/16 01:54		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	80-150	1	07/18/16 14:40	07/19/16 01:54	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**5.1**	mg/kg	0.59	20	07/20/16 09:50	07/20/16 21:39	7440-38-2	
Barium	**89.9**	mg/kg	0.35	20	07/20/16 09:50	07/20/16 21:39	7440-39-3	
Cadmium	**0.22**	mg/kg	0.094	20	07/20/16 09:50	07/20/16 21:39	7440-43-9	
Chromium	**20.3**	mg/kg	0.59	20	07/20/16 09:50	07/20/16 21:39	7440-47-3	
Lead	**60.0**	mg/kg	0.12	20	07/20/16 09:50	07/20/16 21:39	7439-92-1	
Selenium	ND	mg/kg	0.59	20	07/20/16 09:50	07/20/16 21:39	7782-49-2	
Silver	ND	mg/kg	0.59	20	07/20/16 09:50	07/20/16 21:39	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.055**	mg/kg	0.021	1	07/18/16 11:55	07/19/16 16:50	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**19.4**	%	0.10	1		07/21/16 10:18		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	208-96-8	
Anthracene	**0.016**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	120-12-7	
Benzo(a)anthracene	**0.13**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	56-55-3	
Benzo(a)pyrene	**0.14**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	50-32-8	
Benzo(b)fluoranthene	**0.20**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	205-99-2	
Benzo(g,h,i)perylene	**0.043**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	191-24-2	
Benzo(k)fluoranthene	**0.071**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	207-08-9	
Chrysene	**0.14**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	218-01-9	
Dibenz(a,h)anthracene	**0.019**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	53-70-3	
Fluoranthene	**0.23**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.050**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	91-20-3	
Phenanthrene	**0.059**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	85-01-8	
Pyrene	**0.21**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.20**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:36		
Surrogates								
2-Fluorobiphenyl (S)	70	%.	41-125	1	07/19/16 07:42	07/20/16 23:36	321-60-8	
p-Terphenyl-d14 (S)	89	%.	39-125	1	07/19/16 07:42	07/20/16 23:36	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L1 **Lab ID: 10355704011** Collected: 07/14/16 11:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.3	1	07/18/16 10:18	07/18/16 15:29	67-64-1	
Allyl chloride	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	107-05-1	
Benzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	71-43-2	
Bromobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	108-86-1	
Bromochloromethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	74-97-5	
Bromodichloromethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	75-27-4	
Bromoform	ND	mg/kg	0.64	1	07/18/16 10:18	07/18/16 15:29	75-25-2	
Bromomethane	ND	mg/kg	0.64	1	07/18/16 10:18	07/18/16 15:29	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.32	1	07/18/16 10:18	07/18/16 15:29	78-93-3	
n-Butylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	56-23-5	
Chlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	108-90-7	
Chloroethane	ND	mg/kg	0.64	1	07/18/16 10:18	07/18/16 15:29	75-00-3	L3
Chloroform	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	67-66-3	
Chloromethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.64	1	07/18/16 10:18	07/18/16 15:29	96-12-8	
Dibromochloromethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	106-93-4	
Dibromomethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.64	1	07/18/16 10:18	07/18/16 15:29	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	60-29-7	
Ethylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.32	1	07/18/16 10:18	07/18/16 15:29	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	99-87-6	
Methylene Chloride	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.32	1	07/18/16 10:18	07/18/16 15:29	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L1 **Lab ID: 10355704011** Collected: 07/14/16 11:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	1634-04-4	
Naphthalene	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	91-20-3	
n-Propylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	103-65-1	
Styrene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	79-34-5	
Tetrachloroethene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.6	1	07/18/16 10:18	07/18/16 15:29	109-99-9	
Toluene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	79-00-5	
Trichloroethene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 15:29	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.064	1	07/18/16 10:18	07/18/16 15:29	108-67-8	
Vinyl chloride	ND	mg/kg	0.026	1	07/18/16 10:18	07/18/16 15:29	75-01-4	
Xylene (Total)	ND	mg/kg	0.19	1	07/18/16 10:18	07/18/16 15:29	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	104	%.	75-129	1	07/18/16 10:18	07/18/16 15:29	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1	07/18/16 10:18	07/18/16 15:29	2037-26-5	
4-Bromofluorobenzene (S)	97	%.	75-125	1	07/18/16 10:18	07/18/16 15:29	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L2 **Lab ID: 10355704012** Collected: 07/14/16 11:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**24.8**	mg/kg	22.1	2	07/18/16 09:45	07/21/16 18:40		T6
Surrogates								
n-Triacontane (S)	73	%.	50-150	2	07/18/16 09:45	07/21/16 18:40	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.6	1	07/18/16 14:40	07/19/16 02:17		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	80-150	1	07/18/16 14:40	07/19/16 02:17	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**5.5**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 21:42	7440-38-2	
Barium	**86.3**	mg/kg	0.33	20	07/20/16 09:50	07/20/16 21:42	7440-39-3	
Cadmium	**0.25**	mg/kg	0.088	20	07/20/16 09:50	07/20/16 21:42	7440-43-9	
Chromium	**18.0**	mg/kg	0.55	20	07/20/16 09:50	07/20/16 21:42	7440-47-3	
Lead	**44.9**	mg/kg	0.11	20	07/20/16 09:50	07/20/16 21:42	7439-92-1	
Selenium	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 21:42	7782-49-2	
Silver	ND	mg/kg	0.55	20	07/20/16 09:50	07/20/16 21:42	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.030**	mg/kg	0.024	1	07/18/16 11:55	07/19/16 16:52	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**17.7**	%	0.10	1		07/21/16 10:18		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	83-32-9	
Acenaphthylene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	208-96-8	
Anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	120-12-7	
Benzo(a)anthracene	**0.060**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	56-55-3	
Benzo(a)pyrene	**0.071**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	50-32-8	
Benzo(b)fluoranthene	**0.10**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	205-99-2	
Benzo(g,h,i)perylene	**0.024**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	191-24-2	
Benzo(k)fluoranthene	**0.037**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	207-08-9	
Chrysene	**0.067**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	53-70-3	
Fluoranthene	**0.12**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	206-44-0	
Fluorene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.026**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	91-20-3	
Phenanthrene	**0.044**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	85-01-8	
Pyrene	**0.097**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.094**	mg/kg	0.012	1	07/19/16 07:42	07/20/16 23:57		
Surrogates								
2-Fluorobiphenyl (S)	71	%.	41-125	1	07/19/16 07:42	07/20/16 23:57	321-60-8	
p-Terphenyl-d14 (S)	85	%.	39-125	1	07/19/16 07:42	07/20/16 23:57	1718-51-0	

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Minneapolis, MN 55414
(612)607-1700

ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L2 **Lab ID: 10355704012** Collected: 07/14/16 11:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 10:18	07/18/16 15:45	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	107-05-1	
Benzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	71-43-2	
Bromobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	108-86-1	
Bromochloromethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	75-27-4	
Bromoform	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 15:45	75-25-2	
Bromomethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 15:45	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.31	1	07/18/16 10:18	07/18/16 15:45	78-93-3	
n-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	56-23-5	
Chlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	108-90-7	
Chloroethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 15:45	75-00-3	L3
Chloroform	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 15:45	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	106-93-4	
Dibromomethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 15:45	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	60-29-7	
Ethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.31	1	07/18/16 10:18	07/18/16 15:45	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.31	1	07/18/16 10:18	07/18/16 15:45	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L2 **Lab ID: 10355704012** Collected: 07/14/16 11:50 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	91-20-3	
n-Propylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	103-65-1	
Styrene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	79-34-5	
Tetrachloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 10:18	07/18/16 15:45	109-99-9	
Toluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	79-00-5	
Trichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 15:45	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 15:45	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 10:18	07/18/16 15:45	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 10:18	07/18/16 15:45	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	108	%.	75-129	1	07/18/16 10:18	07/18/16 15:45	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1	07/18/16 10:18	07/18/16 15:45	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	07/18/16 10:18	07/18/16 15:45	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L3 **Lab ID: 10355704013** Collected: 07/14/16 12:00 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**35.7**	mg/kg	19.4	2	07/18/16 09:45	07/21/16 18:47		T6
Surrogates								
n-Triacontane (S)	71	%.	50-150	2	07/18/16 09:45	07/21/16 18:47	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	12.0	1	07/19/16 15:16	07/19/16 17:21		
Surrogates								
a,a,a-Trifluorotoluene (S)	89	%.	80-150	1	07/19/16 15:16	07/19/16 17:21	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**3.2**	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:44	7440-38-2	
Barium	**49.6**	mg/kg	0.31	20	07/20/16 09:50	07/20/16 21:44	7440-39-3	
Cadmium	**0.15**	mg/kg	0.082	20	07/20/16 09:50	07/20/16 21:44	7440-43-9	
Chromium	**12.2**	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:44	7440-47-3	
Lead	**17.7**	mg/kg	0.10	20	07/20/16 09:50	07/20/16 21:44	7439-92-1	
Selenium	ND	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:44	7782-49-2	
Silver	ND	mg/kg	0.51	20	07/20/16 09:50	07/20/16 21:44	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.028**	mg/kg	0.021	1	07/18/16 11:55	07/19/16 16:54	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**18.4**	%	0.10	1		07/21/16 10:19		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**0.013**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	83-32-9	
Acenaphthylene	**0.069**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	208-96-8	
Anthracene	**0.074**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	120-12-7	
Benzo(a)anthracene	**0.31**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	56-55-3	
Benzo(a)pyrene	**0.39**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	50-32-8	
Benzo(b)fluoranthene	**0.46**	mg/kg	0.061	5	07/19/16 07:42	07/21/16 12:25	205-99-2	
Benzo(g,h,i)perylene	**0.13**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	191-24-2	
Benzo(k)fluoranthene	**0.25**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	207-08-9	
Chrysene	**0.33**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	218-01-9	
Dibenz(a,h)anthracene	**0.050**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	53-70-3	
Fluoranthene	**0.54**	mg/kg	0.061	5	07/19/16 07:42	07/21/16 12:25	206-44-0	
Fluorene	**0.017**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.14**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	193-39-5	
Naphthalene	ND	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	91-20-3	
Phenanthrene	**0.20**	mg/kg	0.012	1	07/19/16 07:42	07/21/16 00:18	85-01-8	
Pyrene	**0.52**	mg/kg	0.061	5	07/19/16 07:42	07/21/16 12:25	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.54**	mg/kg	0.061	5	07/19/16 07:42	07/21/16 12:25		
Surrogates								
2-Fluorobiphenyl (S)	78	%.	41-125	1	07/19/16 07:42	07/21/16 00:18	321-60-8	
p-Terphenyl-d14 (S)	91	%.	39-125	1	07/19/16 07:42	07/21/16 00:18	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L3 **Lab ID: 10355704013** Collected: 07/14/16 12:00 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.2	1	07/18/16 10:18	07/18/16 16:01	67-64-1	
Allyl chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	107-05-1	
Benzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	71-43-2	
Bromobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	108-86-1	
Bromochloromethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	74-97-5	
Bromodichloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	75-27-4	
Bromoform	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 16:01	75-25-2	
Bromomethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 16:01	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 16:01	78-93-3	
n-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	56-23-5	
Chlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	108-90-7	
Chloroethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 16:01	75-00-3	L3
Chloroform	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	67-66-3	
Chloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 16:01	96-12-8	
Dibromochloromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	106-93-4	
Dibromomethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.61	1	07/18/16 10:18	07/18/16 16:01	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	60-29-7	
Ethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 16:01	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	99-87-6	
Methylene Chloride	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.30	1	07/18/16 10:18	07/18/16 16:01	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-L3 **Lab ID: 10355704013** Collected: 07/14/16 12:00 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	1634-04-4	
Naphthalene	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	91-20-3	
n-Propylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	103-65-1	
Styrene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	79-34-5	
Tetrachloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.4	1	07/18/16 10:18	07/18/16 16:01	109-99-9	
Toluene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	79-00-5	
Trichloroethene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.24	1	07/18/16 10:18	07/18/16 16:01	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.061	1	07/18/16 10:18	07/18/16 16:01	108-67-8	
Vinyl chloride	ND	mg/kg	0.024	1	07/18/16 10:18	07/18/16 16:01	75-01-4	
Xylene (Total)	ND	mg/kg	0.18	1	07/18/16 10:18	07/18/16 16:01	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	107	%.	75-129	1	07/18/16 10:18	07/18/16 16:01	17060-07-0	
Toluene-d8 (S)	102	%.	75-125	1	07/18/16 10:18	07/18/16 16:01	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	07/18/16 10:18	07/18/16 16:01	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-N1 **Lab ID: 10355704014** Collected: 07/14/16 10:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
WIDRO GCS	Analytical Method: WI MOD DRO Preparation Method: WI MOD DRO							
WDRO C10-C28	**37.5**	mg/kg	18.6	2	07/18/16 09:45	07/21/16 18:54		T6
Surrogates								
n-Triacontane (S)	57	%.	50-150	2	07/18/16 09:45	07/21/16 18:54	638-68-6	
WIGRO GCV	Analytical Method: WI MOD GRO Preparation Method: EPA 5030 Medium Soil							
Gasoline Range Organics	ND	mg/kg	10.4	1	07/19/16 15:16	07/19/16 18:35		
Surrogates								
a,a,a-Trifluorotoluene (S)	91	%.	80-150	1	07/19/16 15:16	07/19/16 18:35	98-08-8	
6020A MET ICPMS	Analytical Method: EPA 6020A Preparation Method: EPA 3050							
Arsenic	**3.4**	mg/kg	0.46	20	07/20/16 09:50	07/20/16 20:34	7440-38-2	
Barium	**42.3**	mg/kg	0.28	20	07/20/16 09:50	07/20/16 20:34	7440-39-3	
Cadmium	**0.26**	mg/kg	0.074	20	07/20/16 09:50	07/20/16 20:34	7440-43-9	
Chromium	**11.2**	mg/kg	0.46	20	07/20/16 09:50	07/20/16 20:34	7440-47-3	
Lead	**34.4**	mg/kg	0.092	20	07/20/16 09:50	07/20/16 20:34	7439-92-1	
Selenium	ND	mg/kg	0.46	20	07/20/16 09:50	07/20/16 20:34	7782-49-2	
Silver	ND	mg/kg	0.46	20	07/20/16 09:50	07/20/16 20:34	7440-22-4	
7471B Mercury	Analytical Method: EPA 7471B Preparation Method: EPA 7471B							
Mercury	**0.026**	mg/kg	0.020	1	07/18/16 11:55	07/19/16 16:56	7439-97-6	
Dry Weight	Analytical Method: ASTM D2974							
Percent Moisture	**5.8**	%	0.10	1		07/21/16 10:19		
8270D MSSV PAH by SIM	Analytical Method: EPA 8270D by SIM Preparation Method: EPA 3550							
Acenaphthene	**0.081**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	83-32-9	
Acenaphthylene	**0.018**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	208-96-8	
Anthracene	**0.18**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	120-12-7	
Benzo(a)anthracene	**0.51**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	56-55-3	
Benzo(a)pyrene	**0.45**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	50-32-8	
Benzo(b)fluoranthene	**0.73**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	205-99-2	
Benzo(g,h,i)perylene	**0.11**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	191-24-2	
Benzo(k)fluoranthene	**0.30**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	207-08-9	
Chrysene	**0.52**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	218-01-9	
Dibenz(a,h)anthracene	**0.061**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	53-70-3	
Fluoranthene	**1.0**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	206-44-0	
Fluorene	**0.081**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	86-73-7	
Indeno(1,2,3-cd)pyrene	**0.15**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	193-39-5	
Naphthalene	**0.039**	mg/kg	0.011	1	07/19/16 07:42	07/21/16 00:39	91-20-3	
Phenanthrene	**0.77**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	85-01-8	
Pyrene	**1.0**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47	129-00-0	
Total BaP Eq. MN 2006sh. ND=0	**0.66**	mg/kg	0.053	5	07/19/16 07:42	07/21/16 12:47		
Surrogates								
2-Fluorobiphenyl (S)	75	%.	41-125	1	07/19/16 07:42	07/21/16 00:39	321-60-8	
p-Terphenyl-d14 (S)	87	%.	39-125	1	07/19/16 07:42	07/21/16 00:39	1718-51-0	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-N1 **Lab ID: 10355704014** Collected: 07/14/16 10:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B Preparation Method: EPA 5035/5030B							
Acetone	ND	mg/kg	1.0	1	07/18/16 10:18	07/18/16 16:17	67-64-1	
Allyl chloride	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	107-05-1	
Benzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	71-43-2	
Bromobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	108-86-1	
Bromochloromethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	74-97-5	
Bromodichloromethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	75-27-4	
Bromoform	ND	mg/kg	0.52	1	07/18/16 10:18	07/18/16 16:17	75-25-2	
Bromomethane	ND	mg/kg	0.52	1	07/18/16 10:18	07/18/16 16:17	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 16:17	78-93-3	
n-Butylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	56-23-5	
Chlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	108-90-7	
Chloroethane	ND	mg/kg	0.52	1	07/18/16 10:18	07/18/16 16:17	75-00-3	L3
Chloroform	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	67-66-3	
Chloromethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.52	1	07/18/16 10:18	07/18/16 16:17	96-12-8	
Dibromochloromethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	106-93-4	
Dibromomethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.52	1	07/18/16 10:18	07/18/16 16:17	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	60-29-7	
Ethylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 16:17	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	99-87-6	
Methylene Chloride	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.26	1	07/18/16 10:18	07/18/16 16:17	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: SP-N1 **Lab ID: 10355704014** Collected: 07/14/16 10:40 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	1634-04-4	
Naphthalene	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	91-20-3	
n-Propylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	103-65-1	
Styrene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	79-34-5	
Tetrachloroethene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.1	1	07/18/16 10:18	07/18/16 16:17	109-99-9	
Toluene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	79-00-5	
Trichloroethene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.21	1	07/18/16 10:18	07/18/16 16:17	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.052	1	07/18/16 10:18	07/18/16 16:17	108-67-8	
Vinyl chloride	ND	mg/kg	0.021	1	07/18/16 10:18	07/18/16 16:17	75-01-4	
Xylene (Total)	ND	mg/kg	0.16	1	07/18/16 10:18	07/18/16 16:17	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	106	%.	75-129	1	07/18/16 10:18	07/18/16 16:17	17060-07-0	
Toluene-d8 (S)	104	%.	75-125	1	07/18/16 10:18	07/18/16 16:17	2037-26-5	
4-Bromofluorobenzene (S)	98	%.	75-125	1	07/18/16 10:18	07/18/16 16:17	460-00-4	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: TB **Lab ID: 10355704015** Collected: 07/14/16 00:00 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Acetone	ND	mg/kg	1.0	1	07/18/16 10:18	07/18/16 11:59	67-64-1	
Allyl chloride	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	107-05-1	
Benzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	71-43-2	
Bromobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	108-86-1	
Bromochloromethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	74-97-5	
Bromodichloromethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	75-27-4	
Bromoform	ND	mg/kg	0.50	1	07/18/16 10:18	07/18/16 11:59	75-25-2	
Bromomethane	ND	mg/kg	0.50	1	07/18/16 10:18	07/18/16 11:59	74-83-9	
2-Butanone (MEK)	ND	mg/kg	0.25	1	07/18/16 10:18	07/18/16 11:59	78-93-3	
n-Butylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	104-51-8	
sec-Butylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	135-98-8	
tert-Butylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	98-06-6	
Carbon tetrachloride	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	56-23-5	
Chlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	108-90-7	
Chloroethane	ND	mg/kg	0.50	1	07/18/16 10:18	07/18/16 11:59	75-00-3	L3
Chloroform	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	67-66-3	
Chloromethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	74-87-3	
2-Chlorotoluene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	95-49-8	
4-Chlorotoluene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	106-43-4	
1,2-Dibromo-3-chloropropane	ND	mg/kg	0.50	1	07/18/16 10:18	07/18/16 11:59	96-12-8	
Dibromochloromethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	124-48-1	
1,2-Dibromoethane (EDB)	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	106-93-4	
Dibromomethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	74-95-3	
1,2-Dichlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	95-50-1	
1,3-Dichlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	541-73-1	
1,4-Dichlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	106-46-7	
Dichlorodifluoromethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	75-71-8	
1,1-Dichloroethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	75-34-3	
1,2-Dichloroethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	107-06-2	
1,1-Dichloroethene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	75-35-4	
cis-1,2-Dichloroethene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	156-59-2	
trans-1,2-Dichloroethene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	156-60-5	
Dichlorofluoromethane	ND	mg/kg	0.50	1	07/18/16 10:18	07/18/16 11:59	75-43-4	L3
1,2-Dichloropropane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	78-87-5	
1,3-Dichloropropane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	142-28-9	
2,2-Dichloropropane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	594-20-7	
1,1-Dichloropropene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	563-58-6	
cis-1,3-Dichloropropene	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	10061-01-5	
trans-1,3-Dichloropropene	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	10061-02-6	
Diethyl ether (Ethyl ether)	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	60-29-7	
Ethylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	100-41-4	
Hexachloro-1,3-butadiene	ND	mg/kg	0.25	1	07/18/16 10:18	07/18/16 11:59	87-68-3	
Isopropylbenzene (Cumene)	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	98-82-8	
p-Isopropyltoluene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	99-87-6	
Methylene Chloride	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND	mg/kg	0.25	1	07/18/16 10:18	07/18/16 11:59	108-10-1	

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ANALYTICAL RESULTS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Sample: TB **Lab ID: 10355704015** Collected: 07/14/16 00:00 Received: 07/15/16 17:10 Matrix: Solid

Results reported on a "wet-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260B MSV 5030 Med Level	Analytical Method: EPA 8260B	Preparation Method: EPA 5035/5030B						
Methyl-tert-butyl ether	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	1634-04-4	
Naphthalene	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	91-20-3	
n-Propylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	103-65-1	
Styrene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	100-42-5	
1,1,1,2-Tetrachloroethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	630-20-6	
1,1,2,2-Tetrachloroethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	79-34-5	
Tetrachloroethene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	127-18-4	
Tetrahydrofuran	ND	mg/kg	2.0	1	07/18/16 10:18	07/18/16 11:59	109-99-9	
Toluene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	108-88-3	
1,2,3-Trichlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	87-61-6	
1,2,4-Trichlorobenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	120-82-1	
1,1,1-Trichloroethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	71-55-6	
1,1,2-Trichloroethane	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	79-00-5	
Trichloroethene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	79-01-6	
Trichlorofluoromethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	75-69-4	L3
1,2,3-Trichloropropane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	96-18-4	
1,1,2-Trichlorotrifluoroethane	ND	mg/kg	0.20	1	07/18/16 10:18	07/18/16 11:59	76-13-1	
1,2,4-Trimethylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.050	1	07/18/16 10:18	07/18/16 11:59	108-67-8	
Vinyl chloride	ND	mg/kg	0.020	1	07/18/16 10:18	07/18/16 11:59	75-01-4	
Xylene (Total)	ND	mg/kg	0.15	1	07/18/16 10:18	07/18/16 11:59	1330-20-7	
Surrogates								
1,2-Dichloroethane-d4 (S)	101	%.	75-129	1	07/18/16 10:18	07/18/16 11:59	17060-07-0	
Toluene-d8 (S)	103	%.	75-125	1	07/18/16 10:18	07/18/16 11:59	2037-26-5	
4-Bromofluorobenzene (S)	100	%.	75-125	1	07/18/16 10:18	07/18/16 11:59	460-00-4	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425795 | Analysis Method: WI MOD GRO
QC Batch Method: EPA 5030 Medium Soil | Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012

METHOD BLANK: 2318799 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	07/18/16 17:12	
a,a,a-Trifluorotoluene (S)	%.	92	80-150	07/18/16 17:12	

LABORATORY CONTROL SAMPLE & LCSD: 2318800 2318801

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	46.1	40.8	92	82	80-120	12	20	
a,a,a-Trifluorotoluene (S)	%.				95	93	80-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318802 2318803

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Gasoline Range Organics	mg/kg	ND	60.7	59.1	60.1	60.0	99	101	80-120	0	20	
a,a,a-Trifluorotoluene (S)	%.						94	93	80-150			

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 426104 | Analysis Method: WI MOD GRO
QC Batch Method: EPA 5030 Medium Soil | Analysis Description: WIGRO Solid GCV
Associated Lab Samples: 10355704013, 10355704014

METHOD BLANK: 2319897 | Matrix: Solid
Associated Lab Samples: 10355704013, 10355704014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	10.0	07/19/16 16:33	
a,a,a-Trifluorotoluene (S)	%.	90	80-150	07/19/16 16:33	

LABORATORY CONTROL SAMPLE & LCSD: 2319898 2319899

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	50	50.5	47.9	101	96	80-120	5	20	
a,a,a-Trifluorotoluene (S)	%.				88	88	80-150			

MATRIX SPIKE SAMPLE: 2319900

Parameter	Units	10355704013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	ND	62.5	59.0	94	80-120	
a,a,a-Trifluorotoluene (S)	%.				91	80-150	

SAMPLE DUPLICATE: 2319901

Parameter	Units	10355704014 Result	Dup Result	RPD	Max RPD	Qualifiers
Gasoline Range Organics	mg/kg	ND	ND		20	
a,a,a-Trifluorotoluene (S)	%.	91	90	2		

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425819 | Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B | Analysis Description: 7471B Mercury Solids
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

METHOD BLANK: 2318880 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.020	07/19/16 16:12	

LABORATORY CONTROL SAMPLE: 2318881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.47	0.42	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318882 2318883

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/kg	0.024	.51	.59	0.48	0.58	91	93	75-125	17	20	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425741 | Analysis Method: EPA 6020A
QC Batch Method: EPA 3050 | Analysis Description: 6020A Solids UPD4
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

METHOD BLANK: 2318658 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.46	07/20/16 20:45	
Barium	mg/kg	ND	0.28	07/20/16 20:45	
Cadmium	mg/kg	ND	0.074	07/20/16 20:45	
Chromium	mg/kg	ND	0.46	07/20/16 20:45	
Lead	mg/kg	ND	0.093	07/20/16 20:45	
Selenium	mg/kg	ND	0.46	07/20/16 20:45	
Silver	mg/kg	ND	0.46	07/20/16 20:45	

LABORATORY CONTROL SAMPLE: 2318659

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	49	47.5	97	80-120	
Barium	mg/kg	49	49.2	100	80-120	
Cadmium	mg/kg	49	50.5	103	80-120	
Chromium	mg/kg	49	51.1	104	80-120	
Lead	mg/kg	49	49.8	102	80-120	
Selenium	mg/kg	49	45.8	94	80-120	
Silver	mg/kg	24.5	28.5	116	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318660 2318661

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	3.6	50.8	51.3	49.8	52.7	91	96	80-120	6	20	
Barium	mg/kg	84.5	50.8	51.3	124	144	77	116	80-120	15	20	M6
Cadmium	mg/kg	0.13	50.8	51.3	49.2	50.3	96	98	80-120	2	20	
Chromium	mg/kg	12.8	50.8	51.3	63.0	64.9	99	101	80-120	3	20	
Lead	mg/kg	17.4	50.8	51.3	60.9	62.1	85	87	80-120	2	20	
Selenium	mg/kg	ND	50.8	51.3	44.8	46.6	88	90	80-120	4	20	
Silver	mg/kg	ND	25.5	25.6	27.3	28.4	107	111	80-120	4	20	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 426217 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005

SAMPLE DUPLICATE: 2320570

Parameter	Units	10355560017 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	7.6	8.0	6	30	

SAMPLE DUPLICATE: 2320571

Parameter	Units	10355704005 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	10.9	11.8	8	30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 426256 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10355704006, 10355704007, 10355704008

SAMPLE DUPLICATE: 2320731

Parameter	Units	10355704008 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.2	13.2	14	30	

SAMPLE DUPLICATE: 2320732

Parameter	Units	10355420009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	15.4	14.9	3	30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 426448 | Analysis Method: ASTM D2974
QC Batch Method: ASTM D2974 | Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

SAMPLE DUPLICATE: 2321932

Parameter	Units	10355952004 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	6.0	5.9	1	30	

SAMPLE DUPLICATE: 2321964

Parameter	Units	10355704009 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	13.4	15.2	13	30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425757 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008

METHOD BLANK: 2318716 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	07/18/16 12:30	
1,1,1-Trichloroethane	mg/kg	ND	0.050	07/18/16 12:30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.20	07/18/16 12:30	
1,1,2-Trichloroethane	mg/kg	ND	0.050	07/18/16 12:30	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.20	07/18/16 12:30	
1,1-Dichloroethane	mg/kg	ND	0.050	07/18/16 12:30	
1,1-Dichloroethene	mg/kg	ND	0.050	07/18/16 12:30	
1,1-Dichloropropene	mg/kg	ND	0.050	07/18/16 12:30	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,2,3-Trichloropropane	mg/kg	ND	0.20	07/18/16 12:30	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.50	07/18/16 12:30	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	07/18/16 12:30	
1,2-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,2-Dichloroethane	mg/kg	ND	0.050	07/18/16 12:30	
1,2-Dichloropropane	mg/kg	ND	0.050	07/18/16 12:30	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,3-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
1,3-Dichloropropane	mg/kg	ND	0.050	07/18/16 12:30	
1,4-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
2,2-Dichloropropane	mg/kg	ND	0.20	07/18/16 12:30	
2-Butanone (MEK)	mg/kg	ND	0.25	07/18/16 12:30	
2-Chlorotoluene	mg/kg	ND	0.050	07/18/16 12:30	
4-Chlorotoluene	mg/kg	ND	0.050	07/18/16 12:30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	07/18/16 12:30	
Acetone	mg/kg	ND	1.0	07/18/16 12:30	
Allyl chloride	mg/kg	ND	0.20	07/18/16 12:30	
Benzene	mg/kg	ND	0.050	07/18/16 12:30	
Bromobenzene	mg/kg	ND	0.050	07/18/16 12:30	
Bromochloromethane	mg/kg	ND	0.050	07/18/16 12:30	
Bromodichloromethane	mg/kg	ND	0.20	07/18/16 12:30	
Bromoform	mg/kg	ND	0.50	07/18/16 12:30	
Bromomethane	mg/kg	ND	0.50	07/18/16 12:30	
Carbon tetrachloride	mg/kg	ND	0.050	07/18/16 12:30	
Chlorobenzene	mg/kg	ND	0.050	07/18/16 12:30	
Chloroethane	mg/kg	ND	0.50	07/18/16 12:30	
Chloroform	mg/kg	ND	0.050	07/18/16 12:30	
Chloromethane	mg/kg	ND	0.20	07/18/16 12:30	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	07/18/16 12:30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

METHOD BLANK: 2318716 Matrix: Solid

Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
cis-1,3-Dichloropropene	mg/kg	ND	0.20	07/18/16 12:30	
Dibromochloromethane	mg/kg	ND	0.20	07/18/16 12:30	
Dibromomethane	mg/kg	ND	0.050	07/18/16 12:30	
Dichlorodifluoromethane	mg/kg	ND	0.20	07/18/16 12:30	
Dichlorofluoromethane	mg/kg	ND	0.50	07/18/16 12:30	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	07/18/16 12:30	
Ethylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	07/18/16 12:30	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	07/18/16 12:30	
Methyl-tert-butyl ether	mg/kg	ND	0.050	07/18/16 12:30	
Methylene Chloride	mg/kg	ND	0.20	07/18/16 12:30	
n-Butylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
n-Propylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
Naphthalene	mg/kg	ND	0.20	07/18/16 12:30	
p-Isopropyltoluene	mg/kg	ND	0.050	07/18/16 12:30	
sec-Butylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
Styrene	mg/kg	ND	0.050	07/18/16 12:30	
tert-Butylbenzene	mg/kg	ND	0.050	07/18/16 12:30	
Tetrachloroethene	mg/kg	ND	0.050	07/18/16 12:30	
Tetrahydrofuran	mg/kg	ND	2.0	07/18/16 12:30	
Toluene	mg/kg	ND	0.050	07/18/16 12:30	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	07/18/16 12:30	
trans-1,3-Dichloropropene	mg/kg	ND	0.20	07/18/16 12:30	
Trichloroethene	mg/kg	ND	0.050	07/18/16 12:30	
Trichlorofluoromethane	mg/kg	ND	0.20	07/18/16 12:30	
Vinyl chloride	mg/kg	ND	0.020	07/18/16 12:30	
Xylene (Total)	mg/kg	ND	0.15	07/18/16 12:30	
1,2-Dichloroethane-d4 (S)	%.	96	75-129	07/18/16 12:30	
4-Bromofluorobenzene (S)	%.	103	75-125	07/18/16 12:30	
Toluene-d8 (S)	%.	99	75-125	07/18/16 12:30	

LABORATORY CONTROL SAMPLE & LCSD: 2318717 2318718

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.97	0.90	97	90	71-127	8	20	
1,1,1-Trichloroethane	mg/kg	1	1.1	1.0	109	100	64-132	9	20	
1,1,2,2-Tetrachloroethane	mg/kg	1	1.0	0.92	101	92	50-138	10	20	
1,1,2-Trichloroethane	mg/kg	1	1.0	0.90	100	90	69-126	11	20	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	1.1	1.0	113	101	53-144	12	20	
1,1-Dichloroethane	mg/kg	1	1.1	1.0	110	100	61-134	10	20	
1,1-Dichloroethene	mg/kg	1	1.0	0.96	104	96	57-135	8	20	
1,1-Dichloropropene	mg/kg	1	1.2	1.0	116	103	59-133	12	20	
1,2,3-Trichlorobenzene	mg/kg	1	1.0	0.95	101	95	32-150	6	20	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

LABORATORY CONTROL SAMPLE & LCSD: 2318717 2318718

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
1,2,3-Trichloropropane	mg/kg	1	1.0	0.94	104	94	62-130	10	20	
1,2,4-Trichlorobenzene	mg/kg	1	1.0	0.96	100	96	38-138	4	20	
1,2,4-Trimethylbenzene	mg/kg	1	1.1	0.98	107	98	70-127	9	20	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	2.3	2.1	94	85	40-141	9	20	
1,2-Dibromoethane (EDB)	mg/kg	1	0.98	0.95	98	95	69-130	4	20	
1,2-Dichlorobenzene	mg/kg	1	1.1	0.96	105	96	72-125	9	20	
1,2-Dichloroethane	mg/kg	1	1.1	0.98	109	98	62-125	10	20	
1,2-Dichloropropane	mg/kg	1	1.1	1.0	110	100	67-126	10	20	
1,3,5-Trimethylbenzene	mg/kg	1	1.1	1.0	109	100	71-129	8	20	
1,3-Dichlorobenzene	mg/kg	1	1.1	0.97	106	97	72-126	9	20	
1,3-Dichloropropane	mg/kg	1	1.0	0.95	101	95	70-125	6	20	
1,4-Dichlorobenzene	mg/kg	1	1.0	0.95	104	95	70-126	8	20	
2,2-Dichloropropane	mg/kg	1	1.1	1.0	111	102	48-134	9	20	
2-Butanone (MEK)	mg/kg	5	5.5	4.9	110	98	38-149	11	20	
2-Chlorotoluene	mg/kg	1	1.1	0.98	108	98	71-129	10	20	
4-Chlorotoluene	mg/kg	1	1.1	1.0	109	100	72-128	9	20	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	5.3	4.8	107	96	52-145	10	20	
Acetone	mg/kg	5	5.2	4.9	104	97	65-142	6	20	
Allyl chloride	mg/kg	1	1.1	1.0	112	100	54-125	11	20	
Benzene	mg/kg	1	1.1	1.0	109	101	64-125	8	20	
Bromobenzene	mg/kg	1	1.1	0.97	109	97	70-125	11	20	
Bromochloromethane	mg/kg	1	1.1	1.1	115	106	68-125	8	20	
Bromodichloromethane	mg/kg	1	1.1	0.92	108	92	67-125	16	20	
Bromoform	mg/kg	1	0.84	0.76	84	76	56-127	9	20	
Bromomethane	mg/kg	1	1.1	0.98	107	98	34-137	9	20	
Carbon tetrachloride	mg/kg	1	1.1	0.98	106	98	58-138	8	20	
Chlorobenzene	mg/kg	1	1.1	0.99	108	99	72-125	9	20	
Chloroethane	mg/kg	1	1.2	1.1	118	109	39-148	8	20	CH
Chloroform	mg/kg	1	1.0	0.95	105	95	67-125	10	20	
Chloromethane	mg/kg	1	0.93	0.86	93	86	54-125	7	20	
cis-1,2-Dichloroethene	mg/kg	1	1.1	1.0	108	100	67-125	7	20	
cis-1,3-Dichloropropene	mg/kg	1	1.1	0.96	109	96	62-127	13	20	
Dibromochloromethane	mg/kg	1	0.97	0.89	97	89	67-125	9	20	
Dibromomethane	mg/kg	1	1.1	0.95	109	95	63-129	14	20	
Dichlorodifluoromethane	mg/kg	1	0.79	0.72	79	72	34-139	8	20	
Dichlorofluoromethane	mg/kg	1	1.1	1.1	114	109	36-144	4	20	
Diethyl ether (Ethyl ether)	mg/kg	1	1.0	0.91	101	91	51-125	10	20	
Ethylbenzene	mg/kg	1	1.1	0.98	105	98	70-129	7	20	
Hexachloro-1,3-butadiene	mg/kg	1	0.95	0.92	95	92	48-126	4	20	
Isopropylbenzene (Cumene)	mg/kg	1	1.1	1.0	109	102	75-127	7	20	
Methyl-tert-butyl ether	mg/kg	1	1.0	0.92	101	92	61-125	10	20	
Methylene Chloride	mg/kg	1	1.0	0.93	102	93	60-126	9	20	
n-Butylbenzene	mg/kg	1	1.1	0.99	107	99	67-125	8	20	
n-Propylbenzene	mg/kg	1	1.1	1.0	113	102	72-133	10	20	
Naphthalene	mg/kg	1	1.0	0.97	103	97	35-147	6	20	
p-Isopropyltoluene	mg/kg	1	1.1	1.0	112	101	69-127	10	20	
sec-Butylbenzene	mg/kg	1	1.1	1.0	111	102	70-127	8	20	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

LABORATORY CONTROL SAMPLE & LCSD: 2318717 2318718

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Styrene	mg/kg	1	1.0	0.97	104	97	73-125	7	20	
tert-Butylbenzene	mg/kg	1	1.1	1.0	110	100	71-130	9	20	
Tetrachloroethene	mg/kg	1	1.0	1.0	104	100	66-135	4	20	
Tetrahydrofuran	mg/kg	10	10	9.3	100	93	66-145	8	20	
Toluene	mg/kg	1	1.0	0.95	101	95	69-125	7	20	
trans-1,2-Dichloroethene	mg/kg	1	1.0	0.93	101	93	55-135	7	20	
trans-1,3-Dichloropropene	mg/kg	1	1.0	0.95	103	95	67-125	8	20	
Trichloroethene	mg/kg	1	1.2	1.0	115	100	62-141	14	20	
Trichlorofluoromethane	mg/kg	1	1.1	1.1	114	109	38-150	5	20	
Vinyl chloride	mg/kg	1	0.91	0.88	91	88	57-131	4	20	
Xylene (Total)	mg/kg	3	3.2	3.0	108	100	73-128	8	20	
1,2-Dichloroethane-d4 (S)	%.				103	103	75-129			
4-Bromofluorobenzene (S)	%.				102	100	75-125			
Toluene-d8 (S)	%.				99	100	75-125			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318769 2318770

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	1.2	1.2	1.4	1.4	118	111	59-135	3	30	
1,1,1-Trichloroethane	mg/kg	ND	1.2	1.2	1.6	1.6	139	129	51-137	4	30	M1
1,1,2,2-Tetrachloroethane	mg/kg	ND	1.2	1.2	1.5	1.4	126	114	40-149	6	30	
1,1,2-Trichloroethane	mg/kg	ND	1.2	1.2	1.5	1.5	123	118	54-144	0	30	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	1.2	1.2	1.5	1.6	130	126	41-150	1	30	
1,1-Dichloroethane	mg/kg	ND	1.2	1.2	1.7	1.6	140	130	53-131	4	30	M1
1,1-Dichloroethene	mg/kg	ND	1.2	1.2	1.5	1.5	130	120	41-133	4	30	
1,1-Dichloropropene	mg/kg	ND	1.2	1.2	1.7	1.7	144	134	50-139	3	30	M1
1,2,3-Trichlorobenzene	mg/kg	ND	1.2	1.2	1.5	1.5	128	121	52-150	2	30	
1,2,3-Trichloropropane	mg/kg	ND	1.2	1.2	1.6	1.5	133	120	61-137	6	30	
1,2,4-Trichlorobenzene	mg/kg	ND	1.2	1.2	1.5	1.5	127	119	52-142	2	30	
1,2,4-Trimethylbenzene	mg/kg	ND	1.2	1.2	1.6	1.5	133	123	56-142	4	30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	2.9	3.1	3.3	3.4	111	111	47-143	3	30	
1,2-Dibromoethane (EDB)	mg/kg	ND	1.2	1.2	1.5	1.5	128	119	57-136	4	30	
1,2-Dichlorobenzene	mg/kg	ND	1.2	1.2	1.5	1.5	129	120	59-136	3	30	
1,2-Dichloroethane	mg/kg	ND	1.2	1.2	1.6	1.6	135	127	52-133	3	30	M1
1,2-Dichloropropane	mg/kg	ND	1.2	1.2	1.6	1.5	131	125	62-129	1	30	M1
1,3,5-Trimethylbenzene	mg/kg	ND	1.2	1.2	1.6	1.5	137	124	54-143	6	30	
1,3-Dichlorobenzene	mg/kg	ND	1.2	1.2	1.5	1.5	130	120	60-137	5	30	
1,3-Dichloropropane	mg/kg	ND	1.2	1.2	1.6	1.5	132	120	57-138	6	30	
1,4-Dichlorobenzene	mg/kg	ND	1.2	1.2	1.5	1.4	128	117	51-132	6	30	
2,2-Dichloropropane	mg/kg	ND	1.2	1.2	1.3	1.3	112	106	50-134	2	30	
2-Butanone (MEK)	mg/kg	ND	5.9	6.1	8.3	8.4	140	136	46-125	1	30	M1
2-Chlorotoluene	mg/kg	ND	1.2	1.2	1.6	1.5	133	122	60-141	5	30	
4-Chlorotoluene	mg/kg	ND	1.2	1.2	1.6	1.5	135	123	65-135	6	30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318769 2318770

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	5.9	6.1	8.0	7.9	135	129	47-146	1	30	
Acetone	mg/kg	ND	5.9	6.1	7.1	7.1	121	115	45-148	1	30	
Allyl chloride	mg/kg	ND	1.2	1.2	1.6	1.5	134	125	50-135	4	30	
Benzene	mg/kg	ND	1.2	1.2	1.6	1.6	138	128	41-134	4	30	M1
Bromobenzene	mg/kg	ND	1.2	1.2	1.6	1.5	132	124	59-134	2	30	
Bromochloromethane	mg/kg	ND	1.2	1.2	1.7	1.6	144	134	56-127	4	30	M1
Bromodichloromethane	mg/kg	ND	1.2	1.2	1.4	1.4	122	115	55-136	2	30	
Bromoform	mg/kg	ND	1.2	1.2	1.1	1.2	96	95	51-139	2	30	
Bromomethane	mg/kg	ND	1.2	1.2	1.4	1.4	116	116	35-148	3	30	
Carbon tetrachloride	mg/kg	ND	1.2	1.2	1.5	1.5	128	123	50-140	1	30	
Chlorobenzene	mg/kg	ND	1.2	1.2	1.6	1.5	136	124	59-133	5	30	M1
Chloroethane	mg/kg	ND	1.2	1.2	1.8	1.7	149	138	30-150	4	30	CH
Chloroform	mg/kg	ND	1.2	1.2	1.6	1.5	132	124	58-128	2	30	M1
Chloromethane	mg/kg	ND	1.2	1.2	1.3	1.2	107	101	38-125	2	30	
cis-1,2-Dichloroethene	mg/kg	ND	1.2	1.2	1.6	1.5	135	126	59-125	3	30	M1
cis-1,3-Dichloropropene	mg/kg	ND	1.2	1.2	1.5	1.4	123	117	57-133	1	30	
Dibromochloromethane	mg/kg	ND	1.2	1.2	1.4	1.4	115	110	54-141	1	30	
Dibromomethane	mg/kg	ND	1.2	1.2	1.5	1.5	124	120	53-134	0	30	
Dichlorodifluoromethane	mg/kg	ND	1.2	1.2	0.87	0.94	74	76	30-125	8	30	
Dichlorofluoromethane	mg/kg	ND	1.2	1.2	1.7	1.6	146	131	30-150	8	30	
Diethyl ether (Ethyl ether)	mg/kg	ND	1.2	1.2	1.5	1.4	127	117	46-137	4	30	
Ethylbenzene	mg/kg	ND	1.2	1.2	1.6	1.5	132	122	56-141	4	30	
Hexachloro-1,3-butadiene	mg/kg	ND	1.2	1.2	1.4	1.5	119	121	45-150	6	30	
Isopropylbenzene (Cumene)	mg/kg	ND	1.2	1.2	1.7	1.6	139	129	48-141	4	30	
Methyl-tert-butyl ether	mg/kg	ND	1.2	1.2	1.5	1.6	128	127	53-133	3	30	
Methylene Chloride	mg/kg	ND	1.2	1.2	1.5	1.4	125	116	42-135	4	30	
n-Butylbenzene	mg/kg	ND	1.2	1.2	1.5	1.5	130	122	52-140	2	30	
n-Propylbenzene	mg/kg	ND	1.2	1.2	1.6	1.6	139	127	57-142	5	30	
Naphthalene	mg/kg	ND	1.2	1.2	1.5	1.5	130	123	41-150	1	30	
p-Isopropyltoluene	mg/kg	ND	1.2	1.2	1.6	1.6	136	126	54-139	4	30	
sec-Butylbenzene	mg/kg	ND	1.2	1.2	1.6	1.6	137	128	30-150	3	30	
Styrene	mg/kg	ND	1.2	1.2	1.6	1.5	131	121	53-137	4	30	
tert-Butylbenzene	mg/kg	ND	1.2	1.2	1.6	1.6	136	127	59-138	4	30	
Tetrachloroethene	mg/kg	ND	1.2	1.2	1.6	1.5	133	122	53-138	5	30	
Tetrahydrofuran	mg/kg	ND	11.9	12.3	14.0	13.8	118	112	50-145	1	30	
Toluene	mg/kg	ND	1.2	1.2	1.5	1.5	130	119	55-134	5	30	
trans-1,2-Dichloroethene	mg/kg	ND	1.2	1.2	1.5	1.5	122	118	44-135	0	30	
trans-1,3-Dichloropropene	mg/kg	ND	1.2	1.2	1.4	1.4	121	115	59-139	1	30	
Trichloroethene	mg/kg	ND	1.2	1.2	1.6	1.6	137	126	52-143	4	30	
Trichlorofluoromethane	mg/kg	ND	1.2	1.2	1.6	1.6	136	131	30-150	0	30	
Vinyl chloride	mg/kg	ND	1.2	1.2	1.3	1.2	108	101	36-127	3	30	
Xylene (Total)	mg/kg	ND	3.5	3.7	4.8	4.6	134	125	56-137	3	30	MS
1,2-Dichloroethane-d4 (S)	%.						105	106	75-129			
4-Bromofluorobenzene (S)	%.						101	100	75-125			
Toluene-d8 (S)	%.						102	100	75-125			

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425798 | Analysis Method: EPA 8260B
QC Batch Method: EPA 5035/5030B | Analysis Description: 8260B MSV 5030 Med Level
Associated Lab Samples: 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014, 10355704015

METHOD BLANK: 2318808 | Matrix: Solid
Associated Lab Samples: 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014, 10355704015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	ND	0.050	07/18/16 11:27	
1,1,1-Trichloroethane	mg/kg	ND	0.050	07/18/16 11:27	
1,1,2,2-Tetrachloroethane	mg/kg	ND	0.20	07/18/16 11:27	
1,1,2-Trichloroethane	mg/kg	ND	0.050	07/18/16 11:27	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	0.20	07/18/16 11:27	
1,1-Dichloroethane	mg/kg	ND	0.050	07/18/16 11:27	
1,1-Dichloroethene	mg/kg	ND	0.050	07/18/16 11:27	
1,1-Dichloropropene	mg/kg	ND	0.050	07/18/16 11:27	
1,2,3-Trichlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,2,3-Trichloropropane	mg/kg	ND	0.20	07/18/16 11:27	
1,2,4-Trichlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,2,4-Trimethylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,2-Dibromo-3-chloropropane	mg/kg	ND	0.50	07/18/16 11:27	
1,2-Dibromoethane (EDB)	mg/kg	ND	0.050	07/18/16 11:27	
1,2-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,2-Dichloroethane	mg/kg	ND	0.050	07/18/16 11:27	
1,2-Dichloropropane	mg/kg	ND	0.050	07/18/16 11:27	
1,3,5-Trimethylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,3-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
1,3-Dichloropropane	mg/kg	ND	0.050	07/18/16 11:27	
1,4-Dichlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
2,2-Dichloropropane	mg/kg	ND	0.20	07/18/16 11:27	
2-Butanone (MEK)	mg/kg	ND	0.25	07/18/16 11:27	
2-Chlorotoluene	mg/kg	ND	0.050	07/18/16 11:27	
4-Chlorotoluene	mg/kg	ND	0.050	07/18/16 11:27	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	0.25	07/18/16 11:27	
Acetone	mg/kg	ND	1.0	07/18/16 11:27	
Allyl chloride	mg/kg	ND	0.20	07/18/16 11:27	
Benzene	mg/kg	ND	0.050	07/18/16 11:27	
Bromobenzene	mg/kg	ND	0.050	07/18/16 11:27	
Bromochloromethane	mg/kg	ND	0.050	07/18/16 11:27	
Bromodichloromethane	mg/kg	ND	0.20	07/18/16 11:27	
Bromoform	mg/kg	ND	0.50	07/18/16 11:27	
Bromomethane	mg/kg	ND	0.50	07/18/16 11:27	
Carbon tetrachloride	mg/kg	ND	0.050	07/18/16 11:27	
Chlorobenzene	mg/kg	ND	0.050	07/18/16 11:27	
Chloroethane	mg/kg	ND	0.50	07/18/16 11:27	
Chloroform	mg/kg	ND	0.050	07/18/16 11:27	
Chloromethane	mg/kg	ND	0.20	07/18/16 11:27	
cis-1,2-Dichloroethene	mg/kg	ND	0.050	07/18/16 11:27	
cis-1,3-Dichloropropene	mg/kg	ND	0.20	07/18/16 11:27	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

METHOD BLANK: 2318808 Matrix: Solid
Associated Lab Samples: 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014, 10355704015

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromochloromethane	mg/kg	ND	0.20	07/18/16 11:27	
Dibromomethane	mg/kg	ND	0.050	07/18/16 11:27	
Dichlorodifluoromethane	mg/kg	ND	0.20	07/18/16 11:27	
Dichlorofluoromethane	mg/kg	ND	0.50	07/18/16 11:27	
Diethyl ether (Ethyl ether)	mg/kg	ND	0.20	07/18/16 11:27	
Ethylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
Hexachloro-1,3-butadiene	mg/kg	ND	0.25	07/18/16 11:27	
Isopropylbenzene (Cumene)	mg/kg	ND	0.050	07/18/16 11:27	
Methyl-tert-butyl ether	mg/kg	ND	0.050	07/18/16 11:27	
Methylene Chloride	mg/kg	ND	0.20	07/18/16 11:27	
n-Butylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
n-Propylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
Naphthalene	mg/kg	ND	0.20	07/18/16 11:27	
p-Isopropyltoluene	mg/kg	ND	0.050	07/18/16 11:27	
sec-Butylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
Styrene	mg/kg	ND	0.050	07/18/16 11:27	
tert-Butylbenzene	mg/kg	ND	0.050	07/18/16 11:27	
Tetrachloroethene	mg/kg	ND	0.050	07/18/16 11:27	
Tetrahydrofuran	mg/kg	ND	2.0	07/18/16 11:27	
Toluene	mg/kg	ND	0.050	07/18/16 11:27	
trans-1,2-Dichloroethene	mg/kg	ND	0.050	07/18/16 11:27	
trans-1,3-Dichloropropene	mg/kg	ND	0.20	07/18/16 11:27	
Trichloroethene	mg/kg	ND	0.050	07/18/16 11:27	
Trichlorofluoromethane	mg/kg	ND	0.20	07/18/16 11:27	
Vinyl chloride	mg/kg	ND	0.020	07/18/16 11:27	
Xylene (Total)	mg/kg	ND	0.15	07/18/16 11:27	
1,2-Dichloroethane-d4 (S)	%.	98	75-129	07/18/16 11:27	
4-Bromofluorobenzene (S)	%.	101	75-125	07/18/16 11:27	
Toluene-d8 (S)	%.	103	75-125	07/18/16 11:27	

LABORATORY CONTROL SAMPLE: 2318809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	mg/kg	1	0.87	87	71-127	
1,1,1-Trichloroethane	mg/kg	1	0.91	91	64-132	
1,1,2,2-Tetrachloroethane	mg/kg	1	1.0	102	50-138	
1,1,2-Trichloroethane	mg/kg	1	1.0	102	69-126	
1,1,2-Trichlorotrifluoroethane	mg/kg	1	0.81	81	53-144	
1,1-Dichloroethane	mg/kg	1	0.96	96	61-134	
1,1-Dichloroethene	mg/kg	1	0.75	75	57-135	
1,1-Dichloropropene	mg/kg	1	0.86	86	59-133	
1,2,3-Trichlorobenzene	mg/kg	1	0.93	93	32-150	
1,2,3-Trichloropropane	mg/kg	1	1.0	101	62-130	
1,2,4-Trichlorobenzene	mg/kg	1	0.91	91	38-138	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

LABORATORY CONTROL SAMPLE: 2318809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1	0.90	90	70-127	
1,2-Dibromo-3-chloropropane	mg/kg	2.5	1.8	74	40-141	
1,2-Dibromoethane (EDB)	mg/kg	1	0.95	95	69-130	
1,2-Dichlorobenzene	mg/kg	1	0.93	93	72-125	
1,2-Dichloroethane	mg/kg	1	0.83	83	62-125	
1,2-Dichloropropane	mg/kg	1	0.92	92	67-126	
1,3,5-Trimethylbenzene	mg/kg	1	0.93	93	71-129	
1,3-Dichlorobenzene	mg/kg	1	0.93	93	72-126	
1,3-Dichloropropane	mg/kg	1	0.95	95	70-125	
1,4-Dichlorobenzene	mg/kg	1	0.95	95	70-126	
2,2-Dichloropropane	mg/kg	1	0.83	83	48-134	
2-Butanone (MEK)	mg/kg	5	4.3	85	38-149	
2-Chlorotoluene	mg/kg	1	0.94	94	71-129	
4-Chlorotoluene	mg/kg	1	0.94	94	72-128	
4-Methyl-2-pentanone (MIBK)	mg/kg	5	4.9	99	52-145	
Acetone	mg/kg	5	3.7	74	65-142	
Allyl chloride	mg/kg	1	0.71	71	54-125	
Benzene	mg/kg	1	0.81	81	64-125	
Bromobenzene	mg/kg	1	0.95	95	70-125	
Bromochloromethane	mg/kg	1	0.91	91	68-125	
Bromodichloromethane	mg/kg	1	0.71	71	67-125	
Bromoform	mg/kg	1	0.63	63	56-127	
Bromomethane	mg/kg	1	1.3	128	34-137	CH,SS
Carbon tetrachloride	mg/kg	1	0.72	72	58-138	
Chlorobenzene	mg/kg	1	0.93	93	72-125	
Chloroethane	mg/kg	1	2.2	215	39-148	CH,L0,SS
Chloroform	mg/kg	1	0.88	88	67-125	
Chloromethane	mg/kg	1	0.73	73	54-125	
cis-1,2-Dichloroethene	mg/kg	1	0.86	86	67-125	
cis-1,3-Dichloropropene	mg/kg	1	0.80	80	62-127	
Dibromochloromethane	mg/kg	1	0.75	75	67-125	
Dibromomethane	mg/kg	1	0.82	82	63-129	
Dichlorodifluoromethane	mg/kg	1	0.68	68	34-139	
Dichlorofluoromethane	mg/kg	1	1.9	188	36-144	CH,L0,SS
Diethyl ether (Ethyl ether)	mg/kg	1	0.83	83	51-125	
Ethylbenzene	mg/kg	1	0.90	90	70-129	
Hexachloro-1,3-butadiene	mg/kg	1	0.98	98	48-126	
Isopropylbenzene (Cumene)	mg/kg	1	0.97	97	75-127	
Methyl-tert-butyl ether	mg/kg	1	0.85	85	61-125	
Methylene Chloride	mg/kg	1	0.70	70	60-126	
n-Butylbenzene	mg/kg	1	0.92	92	67-125	
n-Propylbenzene	mg/kg	1	0.98	98	72-133	
Naphthalene	mg/kg	1	0.86	86	35-147	
p-Isopropyltoluene	mg/kg	1	0.91	91	69-127	
sec-Butylbenzene	mg/kg	1	0.96	96	70-127	
Styrene	mg/kg	1	0.91	91	73-125	
tert-Butylbenzene	mg/kg	1	0.98	98	71-130	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

LABORATORY CONTROL SAMPLE: 2318809

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	mg/kg	1	0.97	97	66-135	
Tetrahydrofuran	mg/kg	10	9.0	90	66-145	
Toluene	mg/kg	1	0.92	92	69-125	
trans-1,2-Dichloroethene	mg/kg	1	0.82	82	55-135	
trans-1,3-Dichloropropene	mg/kg	1	0.91	91	67-125	
Trichloroethene	mg/kg	1	0.88	88	62-141	
Trichlorofluoromethane	mg/kg	1	3.0	295	38-150	CH,L0,SS
Vinyl chloride	mg/kg	1	0.79	79	57-131	
Xylene (Total)	mg/kg	3	2.9	96	73-128	
1,2-Dichloroethane-d4 (S)	%.			102	75-129	
4-Bromofluorobenzene (S)	%.			99	75-125	
Toluene-d8 (S)	%.			105	75-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318811 2318812

Parameter	Units	10355708001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
1,1,1,2-Tetrachloroethane	mg/kg	ND	1.1	1.8	1.3	1.5	114	83	59-135	14	30	
1,1,1-Trichloroethane	mg/kg	ND	1.1	1.8	1.4	1.7	124	94	51-137	18	30	
1,1,2,2-Tetrachloroethane	mg/kg	ND	1.1	1.8	1.6	1.9	139	108	40-149	21	30	
1,1,2-Trichloroethane	mg/kg	ND	1.1	1.8	1.5	1.8	135	102	54-144	17	30	
1,1,2-Trichlorotrifluoroethane	mg/kg	ND	1.1	1.8	1.2	1.4	111	79	41-150	12	30	
1,1-Dichloroethane	mg/kg	ND	1.1	1.8	1.4	1.7	126	96	53-131	18	30	
1,1-Dichloroethene	mg/kg	ND	1.1	1.8	1.1	1.3	97	72	41-133	16	30	
1,1-Dichloropropene	mg/kg	ND	1.1	1.8	1.4	1.7	127	98	50-139	19	30	
1,2,3-Trichlorobenzene	mg/kg	ND	1.1	1.8	1.5	2.0	137	114	52-150	27	30	
1,2,3-Trichloropropane	mg/kg	ND	1.1	1.8	1.6	1.9	140	109	61-137	20	30	M1
1,2,4-Trichlorobenzene	mg/kg	ND	1.1	1.8	1.5	1.9	130	105	52-142	24	30	
1,2,4-Trimethylbenzene	mg/kg	ND	1.1	1.8	1.5	1.8	131	103	56-142	21	30	
1,2-Dibromo-3-chloropropane	mg/kg	ND	2.8	4.4	2.7	3.1	96	69	47-143	12	30	
1,2-Dibromoethane (EDB)	mg/kg	ND	1.1	1.8	1.4	1.7	126	95	57-136	17	30	
1,2-Dichlorobenzene	mg/kg	ND	1.1	1.8	1.4	1.8	128	102	59-136	23	30	
1,2-Dichloroethane	mg/kg	ND	1.1	1.8	1.3	1.6	120	91	52-133	18	30	
1,2-Dichloropropane	mg/kg	ND	1.1	1.8	1.4	1.7	128	94	62-129	15	30	
1,3,5-Trimethylbenzene	mg/kg	ND	1.1	1.8	1.5	1.9	134	106	54-143	22	30	
1,3-Dichlorobenzene	mg/kg	ND	1.1	1.8	1.5	1.8	130	102	60-137	21	30	
1,3-Dichloropropane	mg/kg	ND	1.1	1.8	1.5	1.7	131	98	57-138	17	30	
1,4-Dichlorobenzene	mg/kg	ND	1.1	1.8	1.4	1.8	127	102	51-132	23	30	
2,2-Dichloropropane	mg/kg	ND	1.1	1.8	1.1	1.2	94	70	50-134	16	30	
2-Butanone (MEK)	mg/kg	ND	5.6	8.9	6.9	8.5	123	96	46-125	21	30	
2-Chlorotoluene	mg/kg	ND	1.1	1.8	1.5	1.8	130	103	60-141	22	30	
4-Chlorotoluene	mg/kg	ND	1.1	1.8	1.5	1.8	132	101	65-135	18	30	
4-Methyl-2-pentanone (MIBK)	mg/kg	ND	5.6	8.9	7.6	9.1	136	103	47-146	17	30	
Acetone	mg/kg	ND	5.6	8.9	6.3	7.5	112	85	45-148	19	30	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318811 2318812

Parameter	Units	10355708001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Allyl chloride	mg/kg	ND	1.1	1.8	1.0	1.2	89	68	50-135	18	30	
Benzene	mg/kg	ND	1.1	1.8	1.4	1.7	124	95	41-134	18	30	
Bromobenzene	mg/kg	ND	1.1	1.8	1.5	1.8	134	104	59-134	20	30	
Bromochloromethane	mg/kg	ND	1.1	1.8	1.5	1.7	130	98	56-127	17	30	M1
Bromodichloromethane	mg/kg	ND	1.1	1.8	1.1	1.2	96	68	55-136	10	30	
Bromoform	mg/kg	ND	1.1	1.8	0.78	.82J	70	47	51-139		30	M1
Bromomethane	mg/kg	ND	1.1	1.8	1.1	1.5	95	86	35-148	36	30	CH,R1, SS
Carbon tetrachloride	mg/kg	ND	1.1	1.8	1.1	1.3	96	72	50-140	17	30	
Chlorobenzene	mg/kg	ND	1.1	1.8	1.5	1.7	131	99	59-133	17	30	
Chloroethane	mg/kg	ND	1.1	1.8	1.5	1.8	130	102	30-150	21	30	CH,SS
Chloroform	mg/kg	ND	1.1	1.8	1.4	1.7	123	95	58-128	19	30	
Chloromethane	mg/kg	ND	1.1	1.8	1.0	1.4	90	79	38-125	32	30	R1
cis-1,2-Dichloroethene	mg/kg	ND	1.1	1.8	1.4	1.6	123	93	59-125	18	30	
cis-1,3-Dichloropropene	mg/kg	ND	1.1	1.8	1.2	1.4	110	79	57-133	12	30	
Dibromochloromethane	mg/kg	ND	1.1	1.8	1.0	1.2	93	66	54-141	10	30	
Dibromomethane	mg/kg	ND	1.1	1.8	1.3	1.5	115	83	53-134	13	30	
Dichlorodifluoromethane	mg/kg	ND	1.1	1.8	0.82	1.1	73	62	30-125	28	30	
Dichlorofluoromethane	mg/kg	ND	1.1	1.8	1.0	1.2	89	71	30-150	22	30	CH,SS
Diethyl ether (Ethyl ether)	mg/kg	ND	1.1	1.8	1.1	1.1	94	62	46-137	4	30	
Ethylbenzene	mg/kg	ND	1.1	1.8	1.4	2.0	128	112	56-141	32	30	R1
Hexachloro-1,3-butadiene	mg/kg	ND	1.1	1.8	1.5	1.9	134	110	45-150	26	30	
Isopropylbenzene (Cumene)	mg/kg	ND	1.1	1.8	1.4	1.9	129	109	48-141	28	30	
Methyl-tert-butyl ether	mg/kg	ND	1.1	1.8	1.4	1.6	124	93	53-133	17	30	
Methylene Chloride	mg/kg	ND	1.1	1.8	1.2	1.4	104	80	42-135	19	30	
n-Butylbenzene	mg/kg	ND	1.1	1.8	1.4	1.8	129	103	52-140	23	30	
n-Propylbenzene	mg/kg	ND	1.1	1.8	1.5	2.0	135	112	57-142	26	30	
Naphthalene	mg/kg	ND	1.1	1.8	1.5	2.0	131	109	41-150	27	30	
p-Isopropyltoluene	mg/kg	ND	1.1	1.8	1.5	1.9	133	105	54-139	22	30	
sec-Butylbenzene	mg/kg	ND	1.1	1.8	1.5	1.9	133	106	30-150	22	30	
Styrene	mg/kg	ND	1.1	1.8	1.4	1.8	128	101	53-137	22	30	
tert-Butylbenzene	mg/kg	ND	1.1	1.8	1.5	1.8	135	104	59-138	20	30	
Tetrachloroethene	mg/kg	ND	1.1	1.8	1.5	1.8	132	101	53-138	18	30	
Tetrahydrofuran	mg/kg	ND	11.2	17.6	14.1	16.7	126	95	50-145	17	30	
Toluene	mg/kg	ND	1.1	1.8	1.4	1.7	125	94	55-134	17	30	
trans-1,2-Dichloroethene	mg/kg	ND	1.1	1.8	1.2	1.5	110	85	44-135	20	30	
trans-1,3-Dichloropropene	mg/kg	ND	1.1	1.8	1.3	1.5	118	88	59-139	15	30	
Trichloroethene	mg/kg	ND	1.1	1.8	1.4	1.7	126	95	52-143	17	30	
Trichlorofluoromethane	mg/kg	ND	1.1	1.8	1.4	1.8	124	99	30-150	23	30	CH,SS
Vinyl chloride	mg/kg	ND	1.1	1.8	1.1	1.5	99	85	36-127	30	30	
Xylene (Total)	mg/kg	ND	3.4	5.3	4.4	5.2	130	99	56-137	18	30	
1,2-Dichloroethane-d4 (S)	%.						103	103	75-129			
4-Bromofluorobenzene (S)	%.						102	102	75-125			
Toluene-d8 (S)	%.						104	102	75-125			

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425969 | Analysis Method: EPA 8270D by SIM
QC Batch Method: EPA 3550 | Analysis Description: 8270D Solid PAH by SIM MSSV
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

METHOD BLANK: 2319474 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Acenaphthene	mg/kg	ND	0.010	07/20/16 16:31	
Acenaphthylene	mg/kg	ND	0.010	07/20/16 16:31	
Anthracene	mg/kg	ND	0.010	07/20/16 16:31	
Benzo(a)anthracene	mg/kg	ND	0.010	07/20/16 16:31	
Benzo(a)pyrene	mg/kg	ND	0.010	07/20/16 16:31	
Benzo(b)fluoranthene	mg/kg	ND	0.010	07/20/16 16:31	
Benzo(g,h,i)perylene	mg/kg	ND	0.010	07/20/16 16:31	
Benzo(k)fluoranthene	mg/kg	ND	0.010	07/20/16 16:31	
Chrysene	mg/kg	ND	0.010	07/20/16 16:31	
Dibenz(a,h)anthracene	mg/kg	ND	0.010	07/20/16 16:31	
Fluoranthene	mg/kg	ND	0.010	07/20/16 16:31	
Fluorene	mg/kg	ND	0.010	07/20/16 16:31	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.010	07/20/16 16:31	
Naphthalene	mg/kg	ND	0.010	07/20/16 16:31	
Phenanthrene	mg/kg	ND	0.010	07/20/16 16:31	
Pyrene	mg/kg	ND	0.010	07/20/16 16:31	
2-Fluorobiphenyl (S)	%.	69	41-125	07/20/16 16:31	
p-Terphenyl-d14 (S)	%.	92	39-125	07/20/16 16:31	

LABORATORY CONTROL SAMPLE: 2319475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Acenaphthene	mg/kg	.033	0.023	70	53-125	
Acenaphthylene	mg/kg	.033	0.025	74	50-125	
Anthracene	mg/kg	.033	0.028	85	60-125	
Benzo(a)anthracene	mg/kg	.033	0.029	87	63-125	
Benzo(a)pyrene	mg/kg	.033	0.031	92	65-125	
Benzo(b)fluoranthene	mg/kg	.033	0.027	81	61-125	
Benzo(g,h,i)perylene	mg/kg	.033	0.022	65	62-125	
Benzo(k)fluoranthene	mg/kg	.033	0.032	95	65-125	
Chrysene	mg/kg	.033	0.031	92	62-125	
Dibenz(a,h)anthracene	mg/kg	.033	0.025	76	61-125	
Fluoranthene	mg/kg	.033	0.030	91	64-125	
Fluorene	mg/kg	.033	0.026	79	57-125	
Indeno(1,2,3-cd)pyrene	mg/kg	.033	0.024	72	61-125	
Naphthalene	mg/kg	.033	0.020	61	52-125	
Phenanthrene	mg/kg	.033	0.023	70	58-125	
Pyrene	mg/kg	.033	0.030	90	65-125	

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QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

LABORATORY CONTROL SAMPLE: 2319475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2-Fluorobiphenyl (S)	%.			64	41-125	
p-Terphenyl-d14 (S)	%.			87	39-125	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2319476 2319477

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Acenaphthene	mg/kg	ND	.039	.039	0.031	0.034	79	87	37-125	10	30	
Acenaphthylene	mg/kg	ND	.039	.039	0.037	0.038	95	97	30-132	2	30	
Anthracene	mg/kg	ND	.039	.039	0.048	0.054	108	123	30-150	12	30	
Benzo(a)anthracene	mg/kg	0.026	.039	.039	0.079	0.10	135	189	30-144	23	30	M1
Benzo(a)pyrene	mg/kg	0.031	.039	.039	0.087	0.11	143	189	30-150	19	30	M1
Benzo(b)fluoranthene	mg/kg	0.039	.039	.039	0.093	0.12	136	196	30-150	23	30	M1
Benzo(g,h,i)perylene	mg/kg	0.013	.039	.039	0.036	0.042	59	74	30-150	15	30	
Benzo(k)fluoranthene	mg/kg	0.021	.039	.039	0.063	0.087	107	168	30-150	32	30	M1,R1
Chrysene	mg/kg	0.034	.039	.039	0.076	0.10	108	174	30-129	29	30	M1
Dibenz(a,h)anthracene	mg/kg	ND	.039	.039	0.036	0.034	78	72	30-150	7	30	
Fluoranthene	mg/kg	0.051	.039	.039	0.11	0.16	157	282	30-150	36	30	M1,R1
Fluorene	mg/kg	ND	.039	.039	0.036	0.037	92	94	30-136	2	30	
Indeno(1,2,3-cd)pyrene	mg/kg	0.014	.039	.039	0.044	0.053	77	100	30-143	19	30	
Naphthalene	mg/kg	ND	.039	.039	0.022	0.025	55	64	30-125	15	30	
Phenanthrene	mg/kg	0.014	.039	.039	0.059	0.081	115	171	30-129	31	30	M1,R1
Pyrene	mg/kg	0.043	.039	.039	0.098	0.13	137	221	30-150	29	30	M1
2-Fluorobiphenyl (S)	%.						65	68	41-125			
p-Terphenyl-d14 (S)	%.						88	85	39-125			

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(612)607-1700

QUALITY CONTROL DATA

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

QC Batch: 425794 | Analysis Method: WI MOD DRO
QC Batch Method: WI MOD DRO | Analysis Description: WIDRO GCS
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

METHOD BLANK: 2318794 | Matrix: Solid
Associated Lab Samples: 10355704001, 10355704002, 10355704003, 10355704004, 10355704005, 10355704006, 10355704007, 10355704008, 10355704009, 10355704010, 10355704011, 10355704012, 10355704013, 10355704014

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
WDRO C10-C28	mg/kg	ND	10.0	07/21/16 17:52	
n-Triacontane (S)	%.	77	50-150	07/21/16 17:52	

LABORATORY CONTROL SAMPLE & LCSD: 2318795 2318796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
WDRO C10-C28	mg/kg	80	58.1	60.7	73	76	70-120	5	20	
n-Triacontane (S)	%.				69	52	50-150			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2318797 2318798

Parameter	Units	10355704008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
WDRO C10-C28	mg/kg	93.3	74.9	68.5	99.1	74.3	8	-28	70-120	29	20	M3,R2, T6
n-Triacontane (S)	%.						99	70	50-150			

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

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

PASI-M	Pace Analytical Services - Minneapolis

ANALYTE QUALIFIERS

CH	The continuing calibration for this compound is outside of Pace Analytical acceptance limits. The results may be biased high.
L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.
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.
M3	Matrix spike recovery was outside laboratory control limits due to matrix interferences.
M6	Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.
MS	Analyte recovery in the matrix spike was outside QC limits for one or more of the constituent analytes used in the calculated result.
R1	RPD value was outside control limits.
R2	RPD value was outside control limits due to matrix interference
SS	This analyte did not meet the secondary source verification criteria for the initial calibration. The reported result should be considered an estimated value.
T6	High boiling point hydrocarbons are present in the sample.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10355704001	**SP-A1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704002	**SP-A2**	WI MOD DRO	425794	WI MOD DRO	426230
10355704003	**SP-C1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704004	**SP-C2**	WI MOD DRO	425794	WI MOD DRO	426230
10355704005	**SP-C3**	WI MOD DRO	425794	WI MOD DRO	426230
10355704006	**SP-C4**	WI MOD DRO	425794	WI MOD DRO	426230
10355704007	**SP-G1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704008	**SP-I1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704009	**SP-I2**	WI MOD DRO	425794	WI MOD DRO	426230
10355704010	**SP-I3**	WI MOD DRO	425794	WI MOD DRO	426230
10355704011	**SP-L1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704012	**SP-L2**	WI MOD DRO	425794	WI MOD DRO	426230
10355704013	**SP-L3**	WI MOD DRO	425794	WI MOD DRO	426230
10355704014	**SP-N1**	WI MOD DRO	425794	WI MOD DRO	426230
10355704001	**SP-A1**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704002	**SP-A2**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704003	**SP-C1**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704004	**SP-C2**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704005	**SP-C3**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704006	**SP-C4**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704007	**SP-G1**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704008	**SP-I1**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704009	**SP-I2**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704010	**SP-I3**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704011	**SP-L1**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704012	**SP-L2**	EPA 5030 Medium Soil	425795	WI MOD GRO	425895
10355704013	**SP-L3**	EPA 5030 Medium Soil	426104	WI MOD GRO	426119
10355704014	**SP-N1**	EPA 5030 Medium Soil	426104	WI MOD GRO	426119
10355704001	**SP-A1**	EPA 3050	425741	EPA 6020A	426304
10355704002	**SP-A2**	EPA 3050	425741	EPA 6020A	426304
10355704003	**SP-C1**	EPA 3050	425741	EPA 6020A	426304
10355704004	**SP-C2**	EPA 3050	425741	EPA 6020A	426304
10355704005	**SP-C3**	EPA 3050	425741	EPA 6020A	426304
10355704006	**SP-C4**	EPA 3050	425741	EPA 6020A	426304
10355704007	**SP-G1**	EPA 3050	425741	EPA 6020A	426304
10355704008	**SP-I1**	EPA 3050	425741	EPA 6020A	426304
10355704009	**SP-I2**	EPA 3050	425741	EPA 6020A	426304
10355704010	**SP-I3**	EPA 3050	425741	EPA 6020A	426304
10355704011	**SP-L1**	EPA 3050	425741	EPA 6020A	426304
10355704012	**SP-L2**	EPA 3050	425741	EPA 6020A	426304
10355704013	**SP-L3**	EPA 3050	425741	EPA 6020A	426304
10355704014	**SP-N1**	EPA 3050	425741	EPA 6020A	426304
10355704001	**SP-A1**	EPA 7471B	425819	EPA 7471B	426091
10355704002	**SP-A2**	EPA 7471B	425819	EPA 7471B	426091
10355704003	**SP-C1**	EPA 7471B	425819	EPA 7471B	426091
10355704004	**SP-C2**	EPA 7471B	425819	EPA 7471B	426091
10355704005	**SP-C3**	EPA 7471B	425819	EPA 7471B	426091

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10355704006	**SP-C4**	EPA 7471B	425819	EPA 7471B	426091
10355704007	**SP-G1**	EPA 7471B	425819	EPA 7471B	426091
10355704008	**SP-I1**	EPA 7471B	425819	EPA 7471B	426091
10355704009	**SP-I2**	EPA 7471B	425819	EPA 7471B	426091
10355704010	**SP-I3**	EPA 7471B	425819	EPA 7471B	426091
10355704011	**SP-L1**	EPA 7471B	425819	EPA 7471B	426091
10355704012	**SP-L2**	EPA 7471B	425819	EPA 7471B	426091
10355704013	**SP-L3**	EPA 7471B	425819	EPA 7471B	426091
10355704014	**SP-N1**	EPA 7471B	425819	EPA 7471B	426091
10355704001	**SP-A1**	ASTM D2974	426217		
10355704002	**SP-A2**	ASTM D2974	426217		
10355704003	**SP-C1**	ASTM D2974	426217		
10355704004	**SP-C2**	ASTM D2974	426217		
10355704005	**SP-C3**	ASTM D2974	426217		
10355704006	**SP-C4**	ASTM D2974	426256		
10355704007	**SP-G1**	ASTM D2974	426256		
10355704008	**SP-I1**	ASTM D2974	426256		
10355704009	**SP-I2**	ASTM D2974	426448		
10355704010	**SP-I3**	ASTM D2974	426448		
10355704011	**SP-L1**	ASTM D2974	426448		
10355704012	**SP-L2**	ASTM D2974	426448		
10355704013	**SP-L3**	ASTM D2974	426448		
10355704014	**SP-N1**	ASTM D2974	426448		
10355704001	**SP-A1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704002	**SP-A2**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704003	**SP-C1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704004	**SP-C2**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704005	**SP-C3**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704006	**SP-C4**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704007	**SP-G1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704008	**SP-I1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704009	**SP-I2**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704010	**SP-I3**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704011	**SP-L1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704012	**SP-L2**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704013	**SP-L3**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704014	**SP-N1**	EPA 3550	425969	EPA 8270D by SIM	426366
10355704001	**SP-A1**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704002	**SP-A2**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704003	**SP-C1**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704004	**SP-C2**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704005	**SP-C3**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704006	**SP-C4**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704007	**SP-G1**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704008	**SP-I1**	EPA 5035/5030B	425757	EPA 8260B	425981
10355704009	**SP-I2**	EPA 5035/5030B	425798	EPA 8260B	425992

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: B1504055.00 Stockpile Testing
Pace Project No.: 10355704

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
10355704010	**SP-I3**	EPA 5035/5030B	425798	EPA 8260B	425992
10355704011	**SP-L1**	EPA 5035/5030B	425798	EPA 8260B	425992
10355704012	**SP-L2**	EPA 5035/5030B	425798	EPA 8260B	425992
10355704013	**SP-L3**	EPA 5035/5030B	425798	EPA 8260B	425992
10355704014	**SP-N1**	EPA 5035/5030B	425798	EPA 8260B	425992
10355704015	**TB**	EPA 5035/5030B	425798	EPA 8260B	425992

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

10355704

Page: 1 of 2

2070918

Section A Required Client Information:

Company: Braun Intertec
Address: 11001 Hampshire Ave S. Mpls, MN 55438
Email To: jhansen@braunintertec.com
Phone: 952.995.2401 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jeremy Hansen
Copy To: Julie Baumeister jbaumeister@braunintertec.com
Purchase Order No.:
Project Name: Stockpile Testing
Project Number: B1504055.DD

Section C Invoice Information:

Attention: Erin Campbell
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34000

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW, Water WT, Waste Water WW, Product P, Soil/Solid SL, Oil OL, Wipe WP, Air AR, Tissue TS, Other OT

Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COLLECTED COMPOSITE START TIME	COLLECTED COMPOSITE END/GRAB DATE	COLLECTED COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test (Y/N): VOCs (8260)	GRO (WI GRO)	DRO (WI DRO)	PAHs (8270)	RCRA Metals (6020/7471)	TCLP Metals (HOLD)					Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-A1	SL	G			7/14/16	7:50		9	5						4		X	X	X	X	X							001
2	SP-A2						8:10		9	5						4		X	X	X	X	X							002
3	SP-C1						8:30		9	5						4		X	X	X	X	X							003
4	SP-C2						8:55		9	5						4		X	X	X	X	X							004
5	SP-C3						9:05		9	5						4		X	X	X	X	X							005
6	SP-C4						9:20		9	5						4		X	X	X	X	X							006
7	SP-G1						10:30		9	5						4		X	X	X	X	X							007
8	SP-I1						10:55		21	9						12		X	X	X	X	X	HOLD	←	MS/MSD				008
9	SP-I2						11:05		9	5						4		X	X	X	X	X							009
10	SP-T3						11:15		9	5						4		X	X	X	X	X							010
11	SP-L1						11:40		9	5						4		X	X	X	X	X							011
12	SP-L2						11:50		9	5						4		X	X	X	X	X							012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS		
* HOLD all samples for TCLP Metals.	Julie / Braun	7/15/16	9:50	/ Pace	7/15/16	0952	3.8 5.3 5.6	Y	N	Y
	/ Pace	7/15/16	1000	Pace	7/15/16	12:10	5.4 5.2 4.6			
* MS/MSD sample was requested by Pace.									
Extra collected of SP-I1.									

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Julie Baumeister
SIGNATURE of SAMPLER: Julie
DATE Signed (MM/DD/YY): 7/15/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

2070919

Section A Required Client Information:

Company: Braun Intertec
Address: 1001 Hampshire Ave S, Mpls, MN 55438
Email To: jhansen@braunintertec.com
Phone: 952.995.2464 Fax:
Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: Jeremy Hansen
Copy To: Julie Baumeister, jbaumeister@braunintertec.com
Purchase Order No.:
Project Name: Stockpile Testing
Project Number: B1504055.00

Section C Invoice Information:

Attention: Erin Campbell
Company Name: Same
Address:
Pace Quote Reference:
Pace Project Manager:
Pace Profile #: 34000

REGULATORY AGENCY: ☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER

Site Location STATE: MN

Requested Analysis Filtered (Y/N)

Section D Required Client Information

Matrix Codes MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

SAMPLE ID (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Analysis Test ↓ Y/N	VOCs (8260)	GRO (WI GRO)	DRO (WI DRO)	PAHs (8270)	RCRA Metals (6010B/7471)	TCLP Metals (HDLD)						Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	SP-L3	S	G			7/14/16	12:00		9	5						4			X	X	X	X	X								013
2	SP-N1	S	G			↓	10:40		9	5						4			X	X	X	X	X								014
3	TB-1	–	–			—	—		1							1			X												
4	TB-2	–	–			—	—		1							1			X												015
5	TB-3	–	–			—	—		1							1			X												
6																															
7																															
8																															
9																															
10																															
11																															
12																															

Trip Blanks

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
* Hold all for	Braun	7/15/16	9:50	Pace	7/15/16	0952	3.5 5.3 5.0	Y	N	Y
TCLP metals	Braun	7/15/16	1000	Pace	7/15/16	17:10	5.7 5.2 4.6	Y	N	Y

ORIGINAL

SAMPLER NAME AND SIGNATURE
PRINT Name of SAMPLER: Julie Baumeister
SIGNATURE of SAMPLER: [signature] DATE Signed (MM/DD/YY): 7/15/16

Temp in °C | Received on Ice (Y/N) | Custody Sealed Cooler (Y/N) | Samples Intact (Y/N)

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

F-ALL-Q-020rev.07, 15-May-2007

Pace Analytical	Document Name: **Sample Condition Upon Receipt Form**	Document Revised: 04Apr2016 Page 1 of 1
	Document No.: **F-MN-L-213-rev.16**	Issuing Authority: Pace Minnesota Quality Office

Sample Condition Upon Receipt

Client Name: Brown Intertec

Project #: WO# : 10355704

10355704

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☑ Pace ☐ SpeeDee ☐ Other:_____

Tracking Number: _____

Custody Seal on Cooler/Box Present? ☐ Yes ☑ No **Seals Intact?** ☐ Yes ☑ No

Optional: Proj. Due Date: Proj. Name:

Packing Material: ☐ Bubble Wrap ☑ Bubble Bags ☐ None ☐ Other:_____ **Temp Blank?** ☑ Yes ☐ No

Thermometer Used: ☐ 151401163 ☑ B88A912167504 ☐ 151401164 ☐ B88A0143310098

Type of Ice: ☑ Wet ☐ Blue ☐ None ☐ Samples on ice, cooling process has begun

Cooler Temp Read (°C): 5.9, 5.2, 4.6 **Cooler Temp Corrected (°C):** 5.9, 5.2, 4.6 **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Temp should be above freezing to 6°C **Correction Factor:** true **Date and Initials of Person Examining Contents:** 7-15-16 AA

USDA Regulated Soil (☐ N/A, water sample)

Did samples originate in a quarantine zone within the United States: AL, AR, AZ, CA, FL, GA, ID, LA. MS, NC, NM, NY, OK, OR, SC, TN, TX or VA (check maps)? ☐ Yes ☑ No

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? ☐ Yes ☑ No

If Yes to either question, fill out a Regulated Soil Checklist (F-MN-Q-338) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Chain of Custody Filled Out?	☑ Yes	☐ No	☐ N/A	2.
Chain of Custody Relinquished?	☑ Yes	☐ No	☐ N/A	3.
Sampler Name and/or Signature on COC?	☑ Yes	☐ No	☐ N/A	4.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	5.
Short Hold Time Analysis (<72 hr)?	☐ Yes	☑ No	☐ N/A	6.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	7.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	8.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	9.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	10.
Filtered Volume Received for Dissolved Tests?	☐ Yes	☐ No	☑ N/A	11. Note if sediment is visible in the dissolved container
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: SL	☑ Yes	☐ No	☐ N/A	12.
All containers needing acid/base preservation have been checked?	☐ Yes	☐ No	☑ N/A	13. ☐ HNO_3 ☐ H_2SO_4 ☐ NaOH ☐ HCl Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO_3, H_2SO_4, HCl<2; NaOH >9 Sulfide, NaOH>12 Cyanide)	☐ Yes	☐ No	☑ N/A	
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC	☐ Yes	☐ No	☑ N/A	Initial when completed:_____ Lot # of added preservative:_____
Headspace in VOA Vials (>6mm)?	☐ Yes	☐ No	☑ N/A	14.
Trip Blank Present?	☑ Yes	☐ No	☐ N/A	15.
Trip Blank Custody Seals Present?	☑ Yes	☐ No	☐ N/A	
Pace Trip Blank Lot # (if purchased): 052316-3				

CLIENT NOTIFICATION/RESOLUTION **Field Data Required?** ☐ Yes ☐ No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: _____ **Date:** 7/18/16

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers).

Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000087.D

Report Date: 07/22/2016

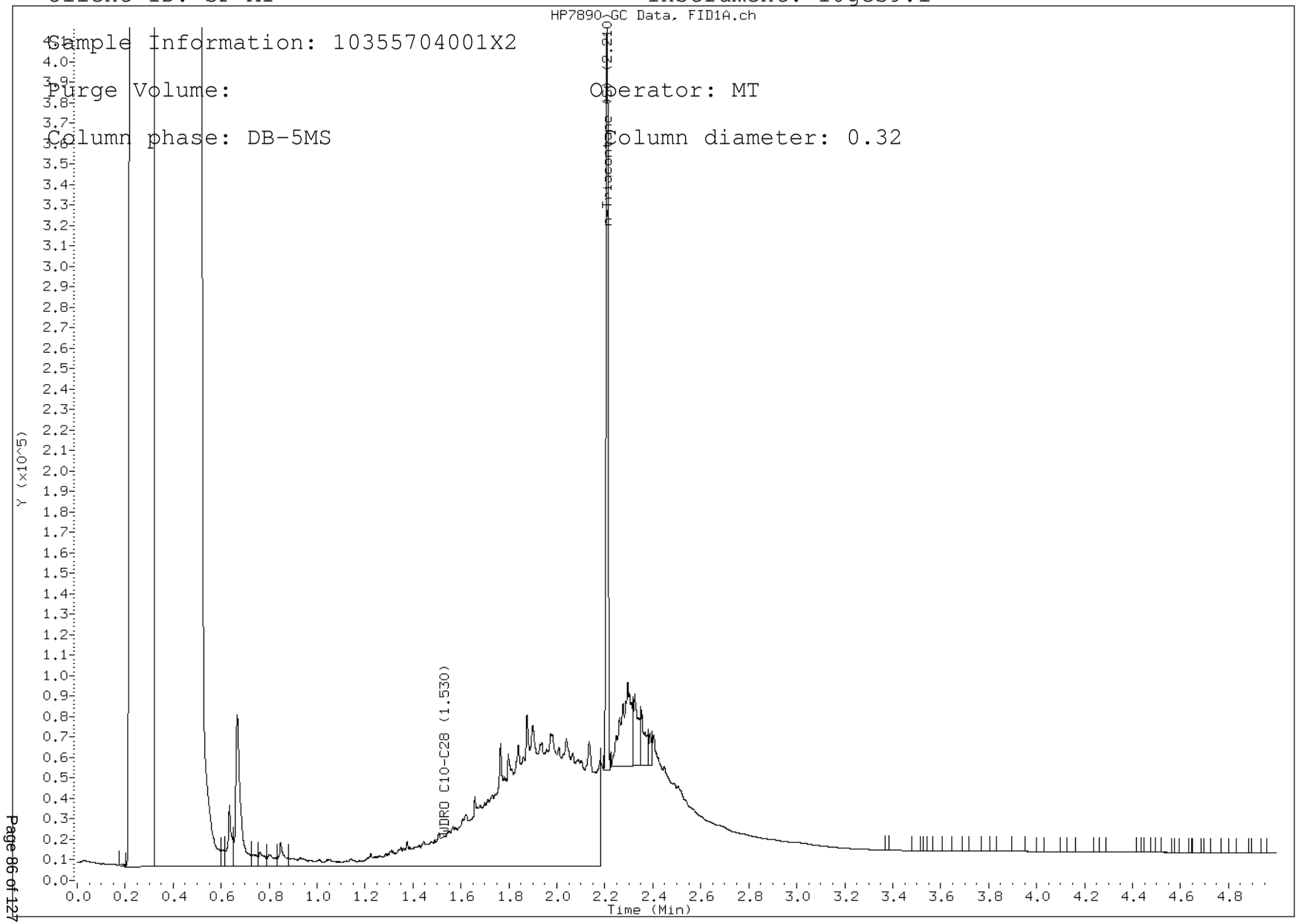
Sample ID: 10355704001

Client ID: SP-A1 Instrument: 10gcs9.i

Sample Information: 10355704001X2

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000092.D

Report Date: 07/22/2016

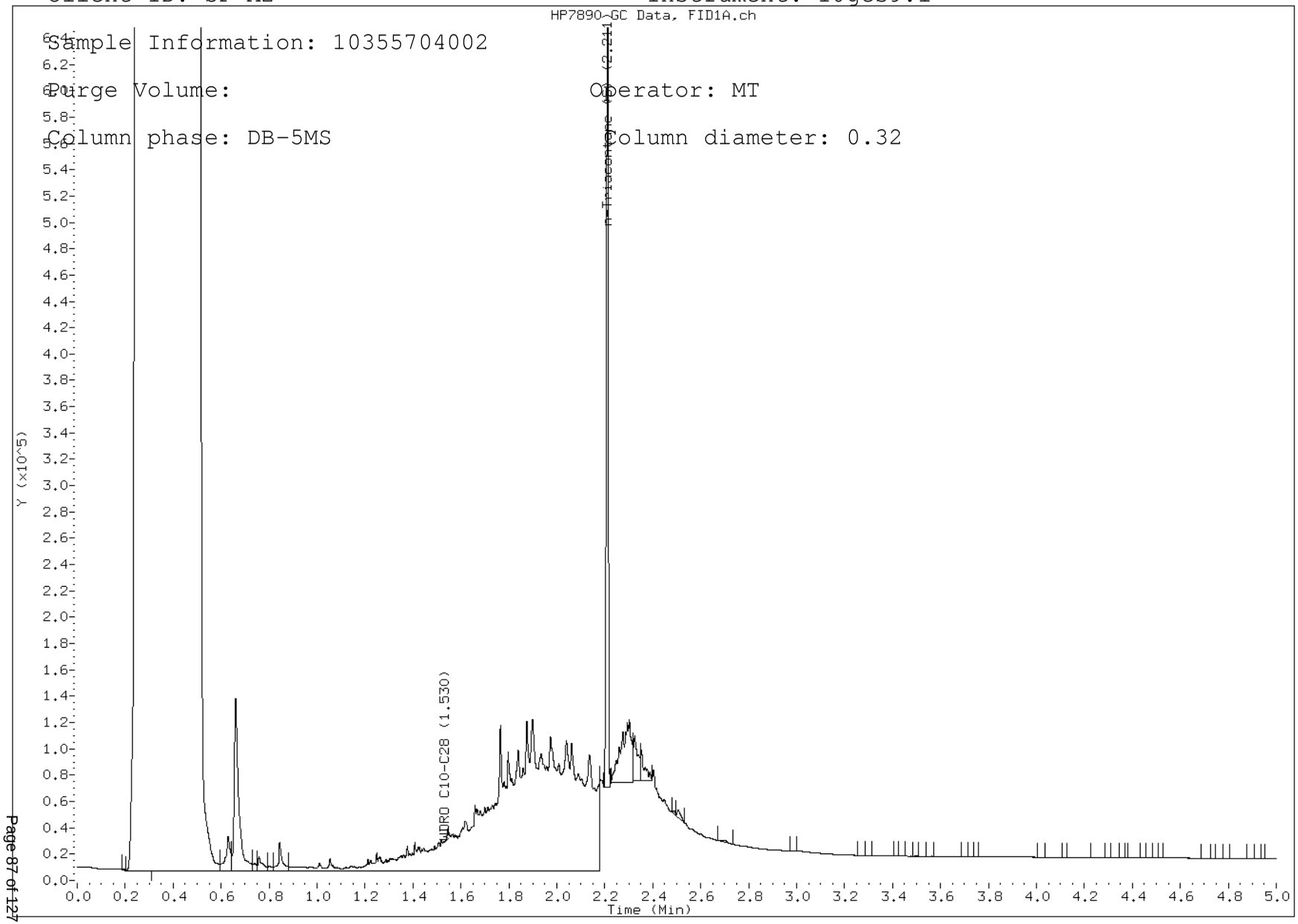
Sample ID: 10355704002

Client ID: SP-A2 Instrument: 10gcs9.i

Sample Information: 10355704002

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32

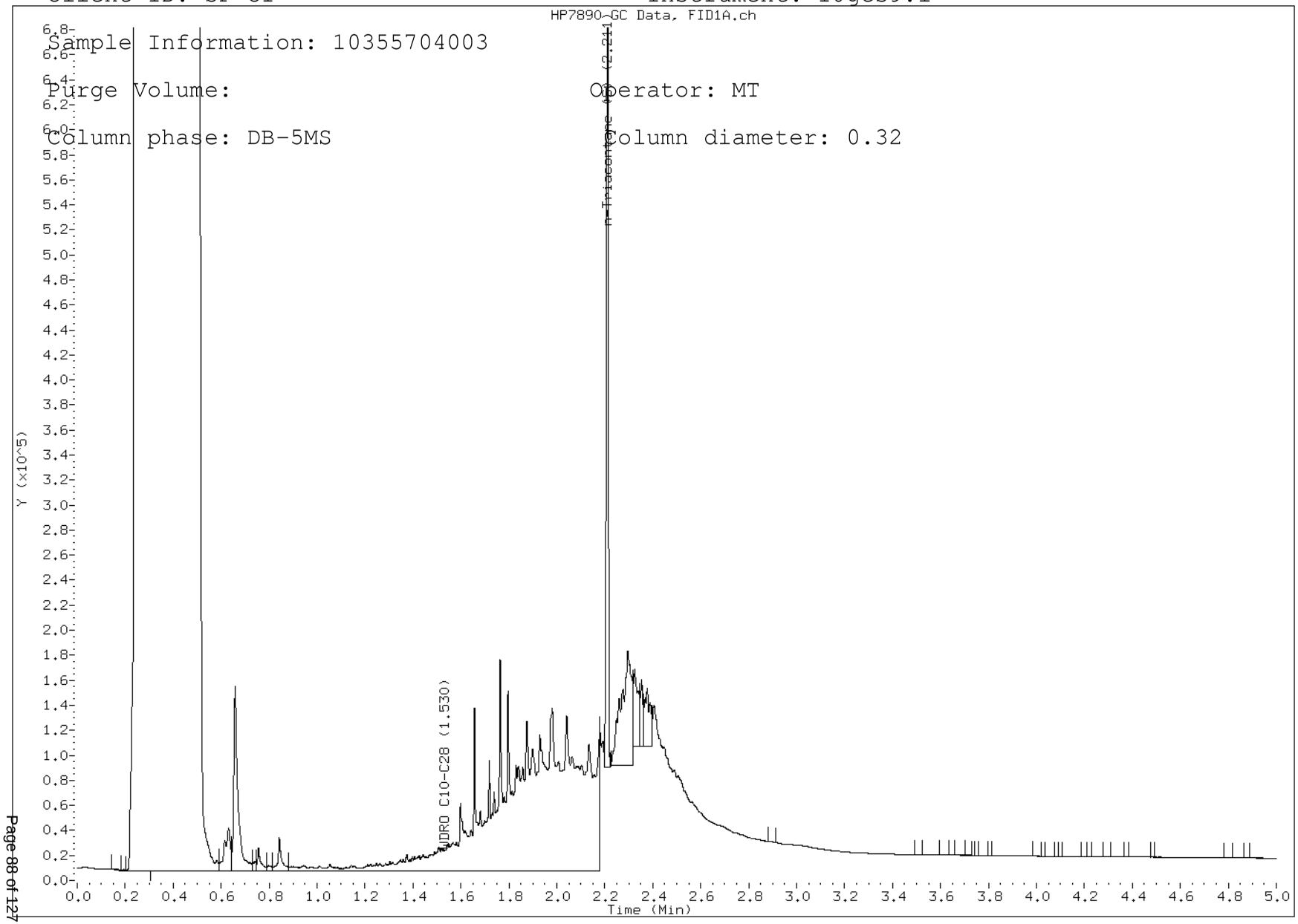


Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000093.D

Report Date: 07/22/2016

Sample ID: 10355704003

Client ID: SP-C1 Instrument: 10gcs9.i



Sample Information: 10355704003

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32

Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000101.D

Report Date: 07/22/2016

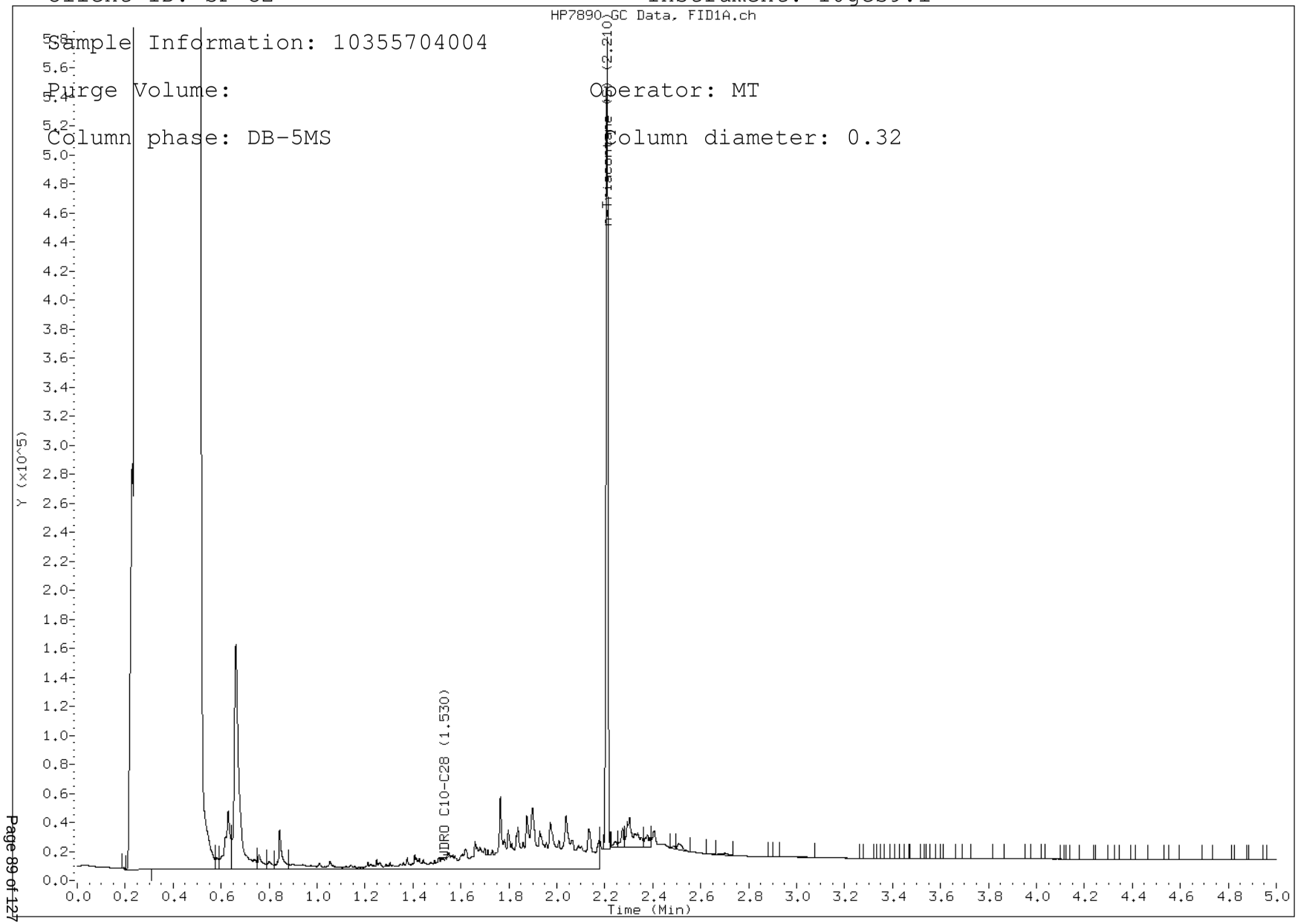
Sample ID: 10355704004

Client ID: SP-C2 Instrument: 10gcs9.i

Sample Information: 10355704004

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000091.D

Report Date: 07/22/2016

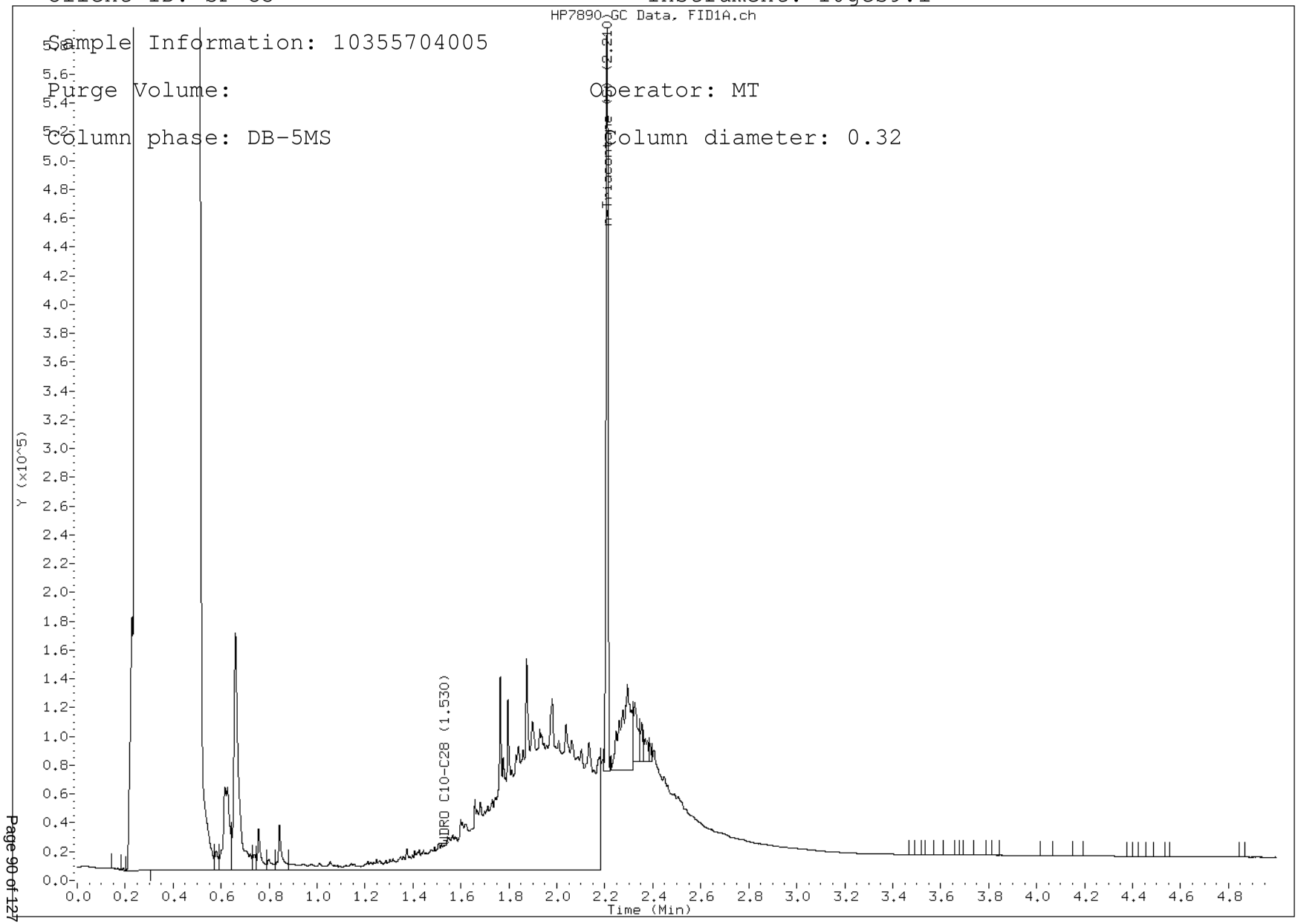
Sample ID: 10355704005

Client ID: SP-C3 Instrument: 10gcs9.i

Sample Information: 10355704005

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000097.D

Report Date: 07/22/2016

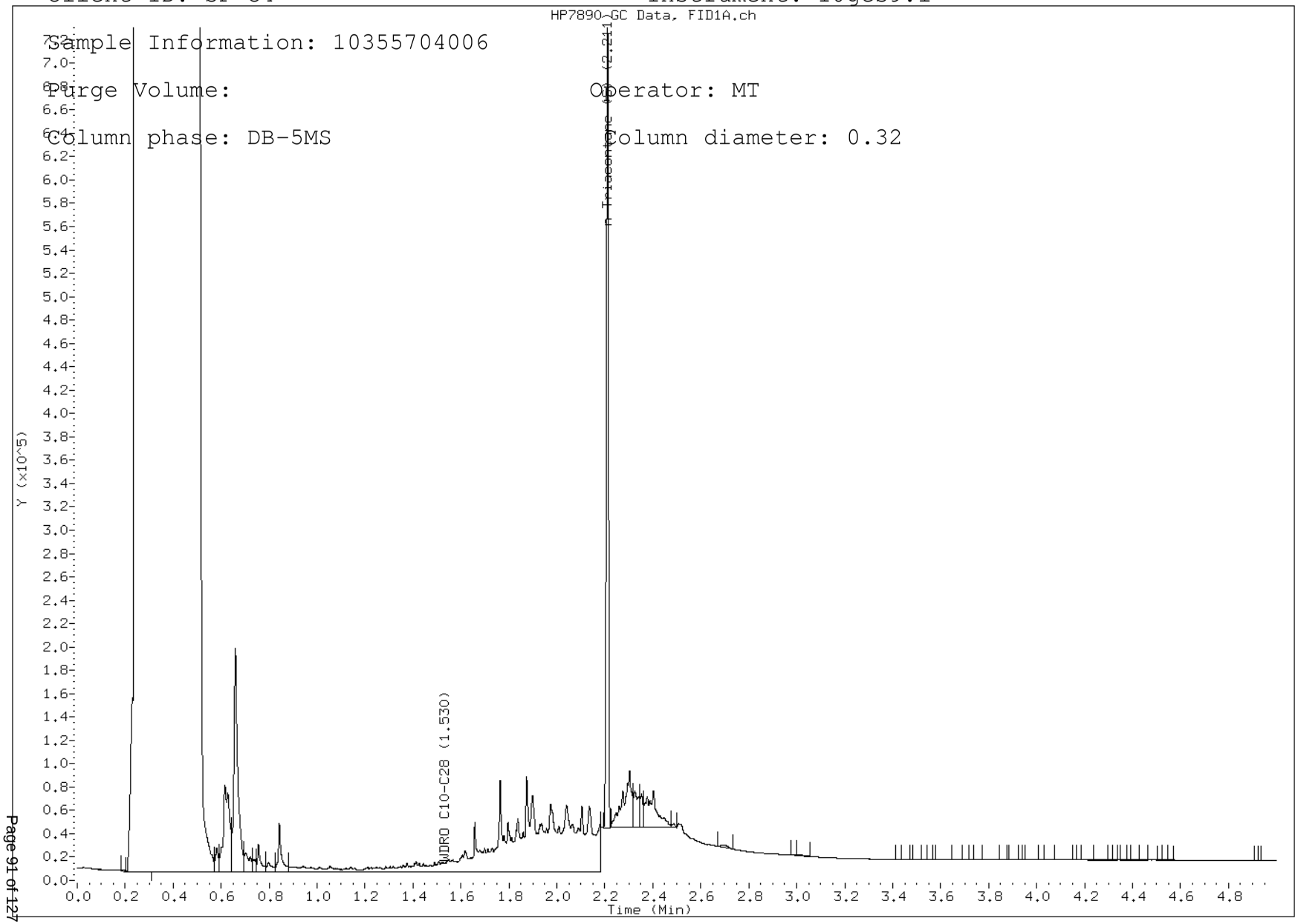
Sample ID: 10355704006

Client ID: SP-C4 Instrument: 10gcs9.i

Sample Information: 10355704006

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



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Report Date: 07/22/2016

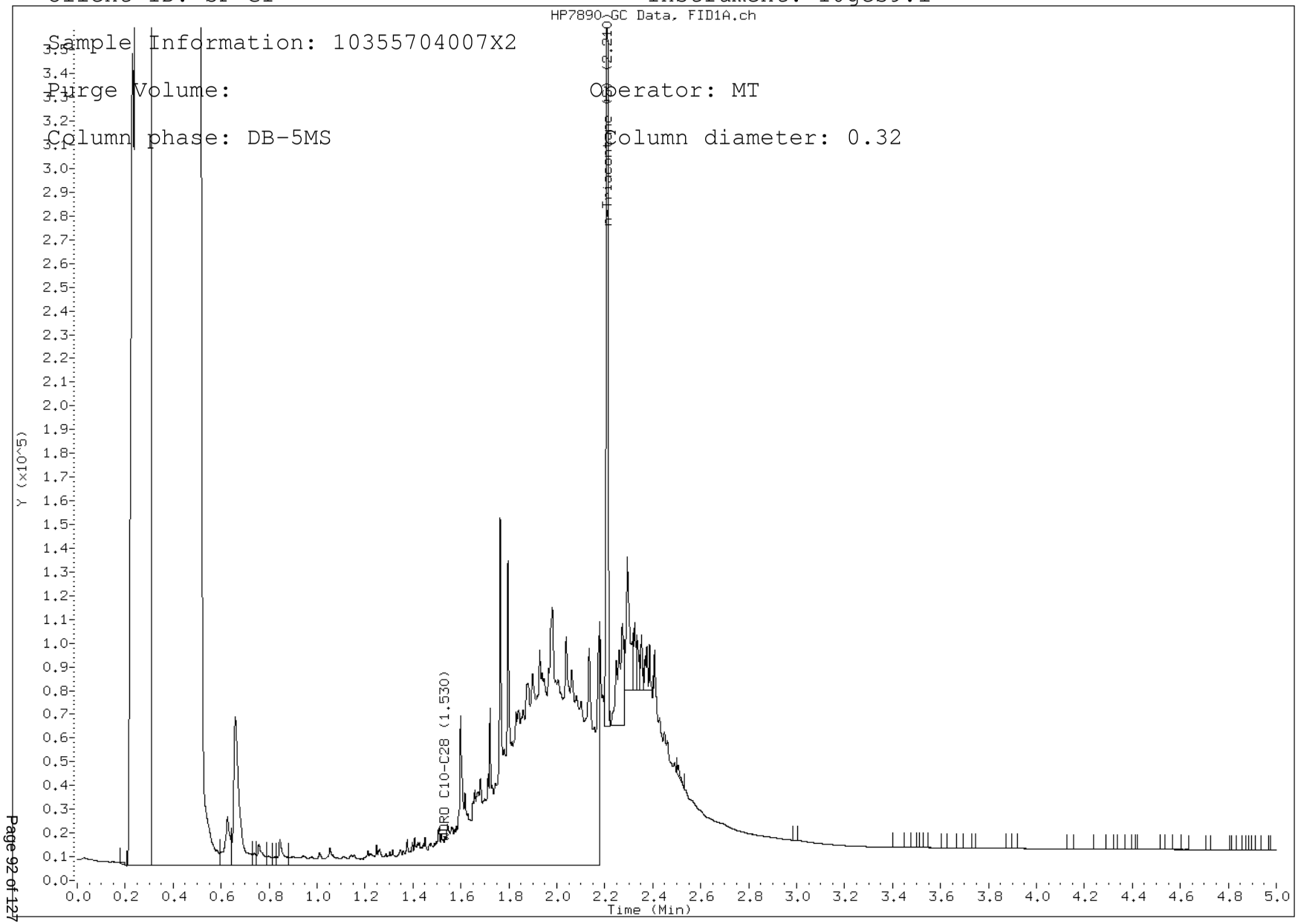
Sample ID: 10355704007

Client ID: SP-G1 Instrument: 10gcs9.i

Sample Information: 10355704007X2

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000083.D

Report Date: 07/22/2016

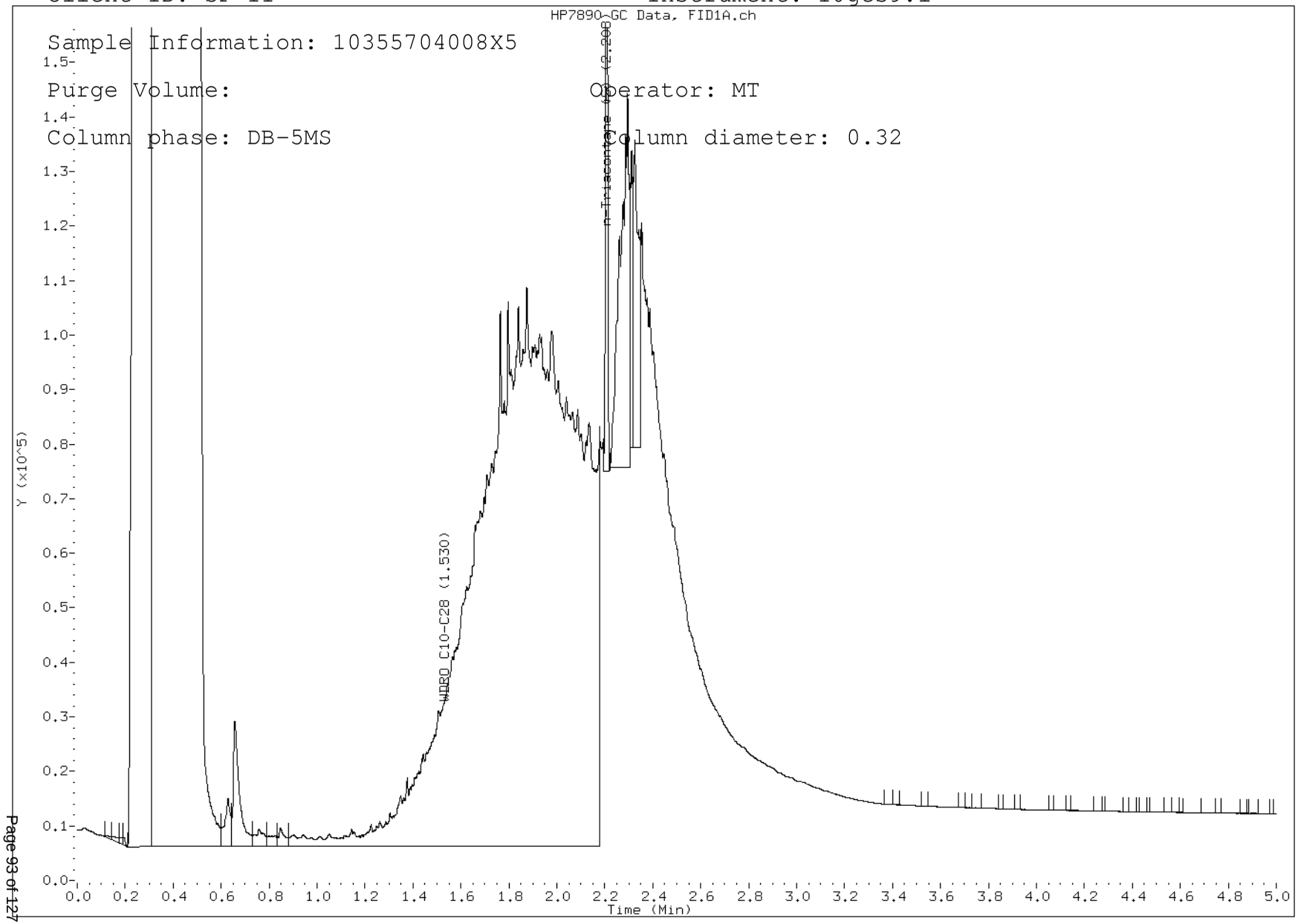
Sample ID: 10355704008

Client ID: SP-I1 Instrument: 10gcs9.i

Sample Information: 10355704008X5

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000096.D

Report Date: 07/22/2016

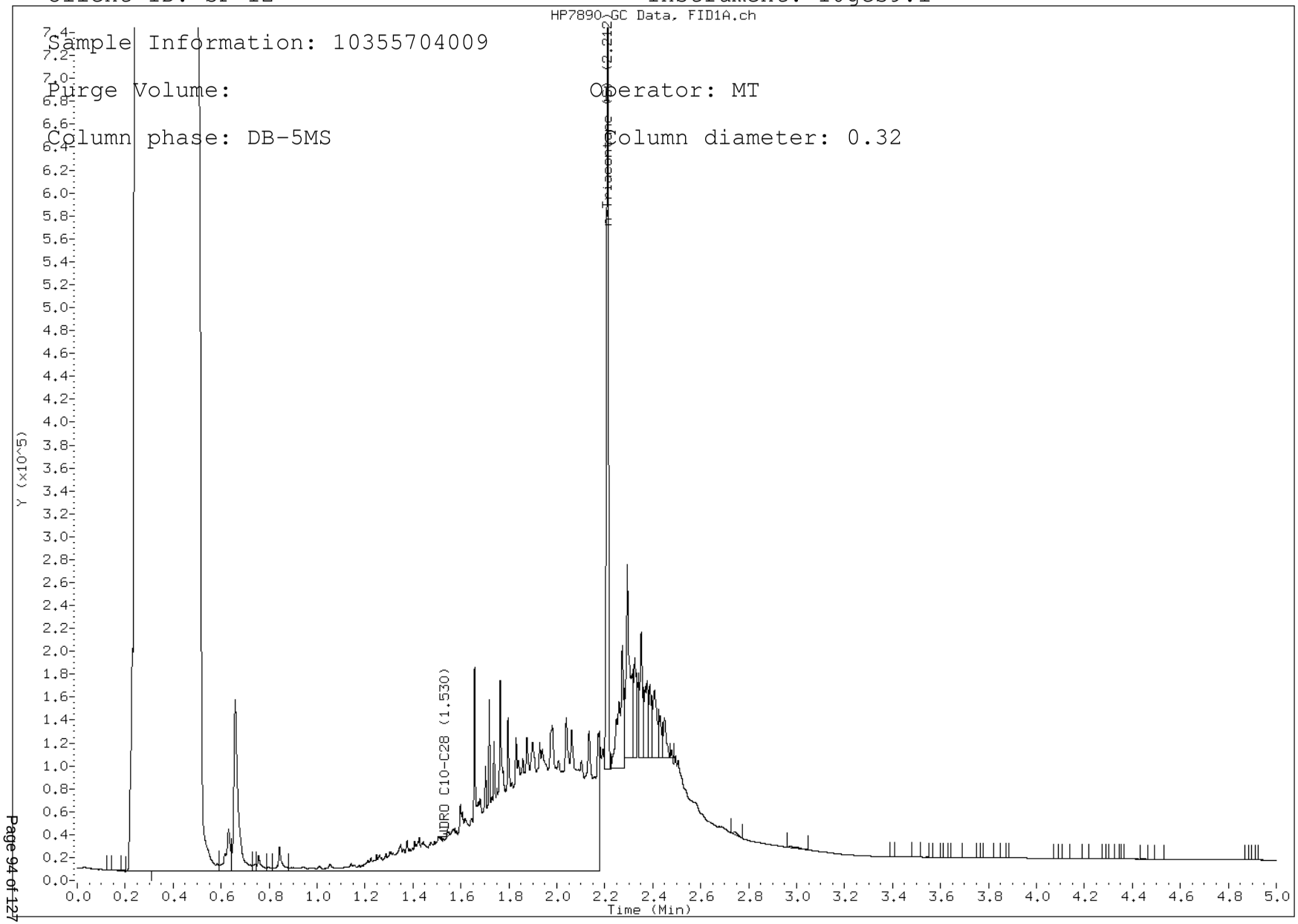
Sample ID: 10355704009

Client ID: SP-I2 Instrument: 10gcs9.i

Sample Information: 10355704009

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32

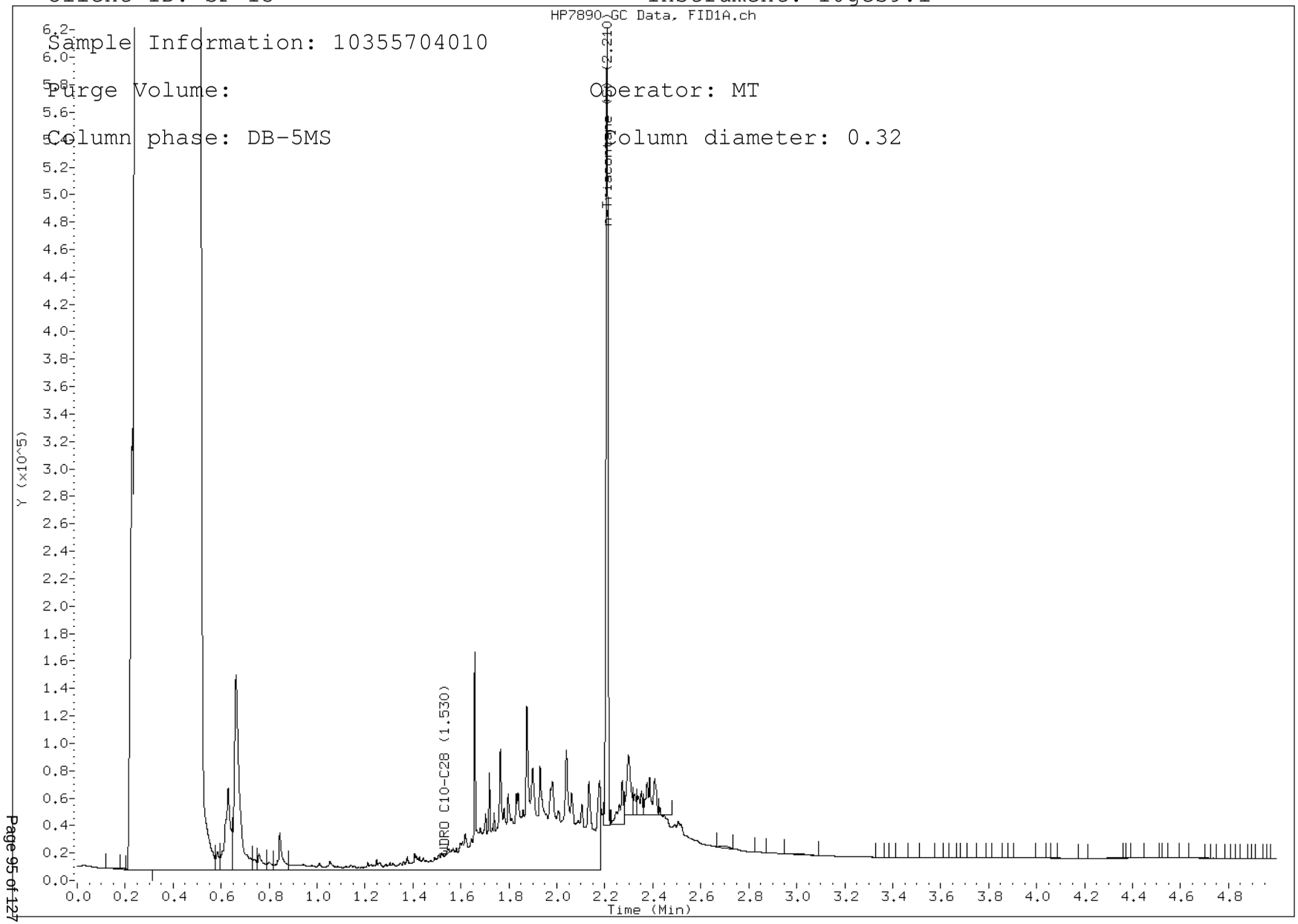


Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000099.D

Report Date: 07/22/2016

Sample ID: 10355704010

Client ID: SP-I3 Instrument: 10gcs9.i



Sample Information: 10355704010

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32

Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000095.D

Report Date: 07/22/2016

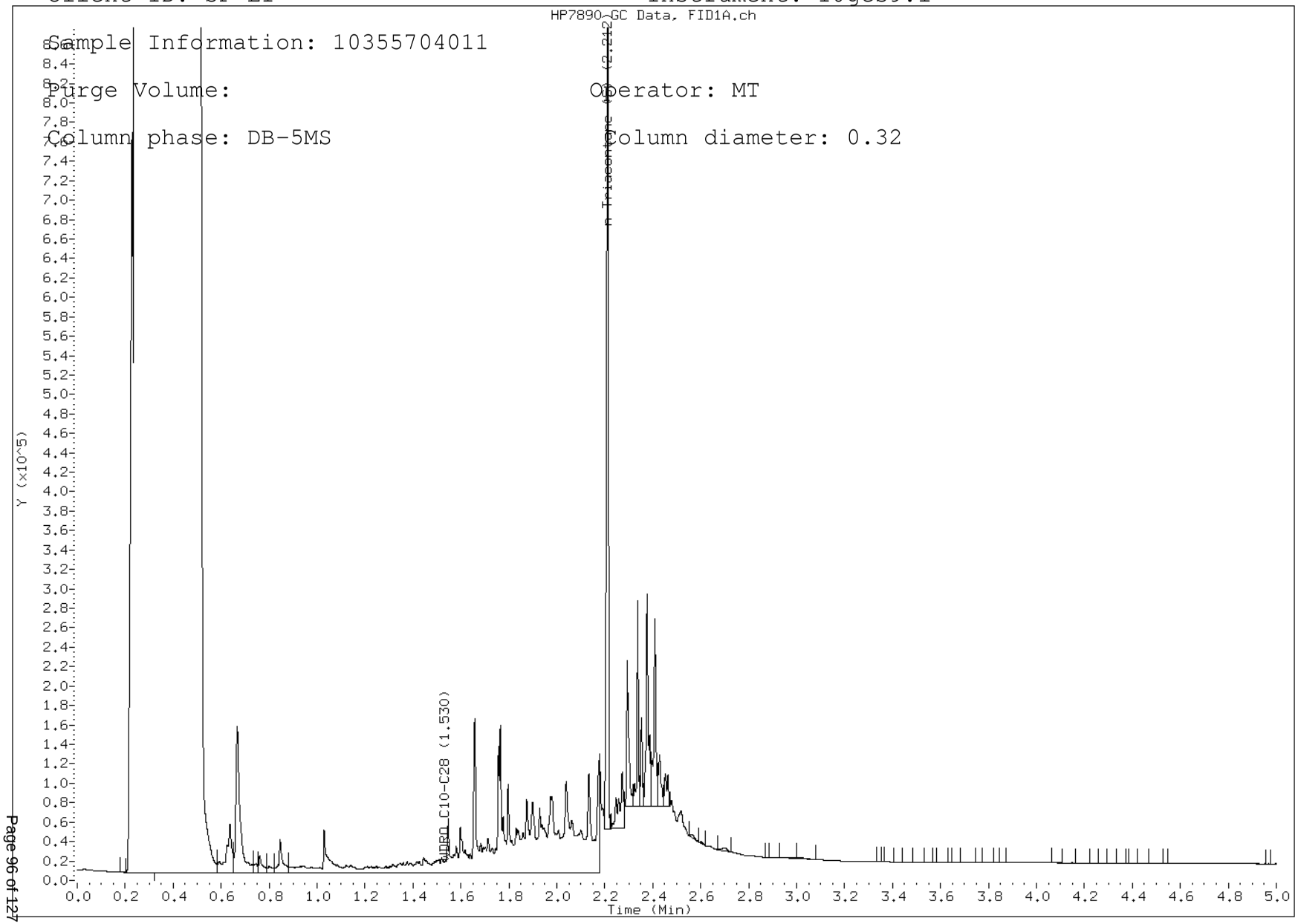
Sample ID: 10355704011

Client ID: SP-L1 Instrument: 10gcs9.i

Sample Information: 10355704011

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000088.D

Report Date: 07/22/2016

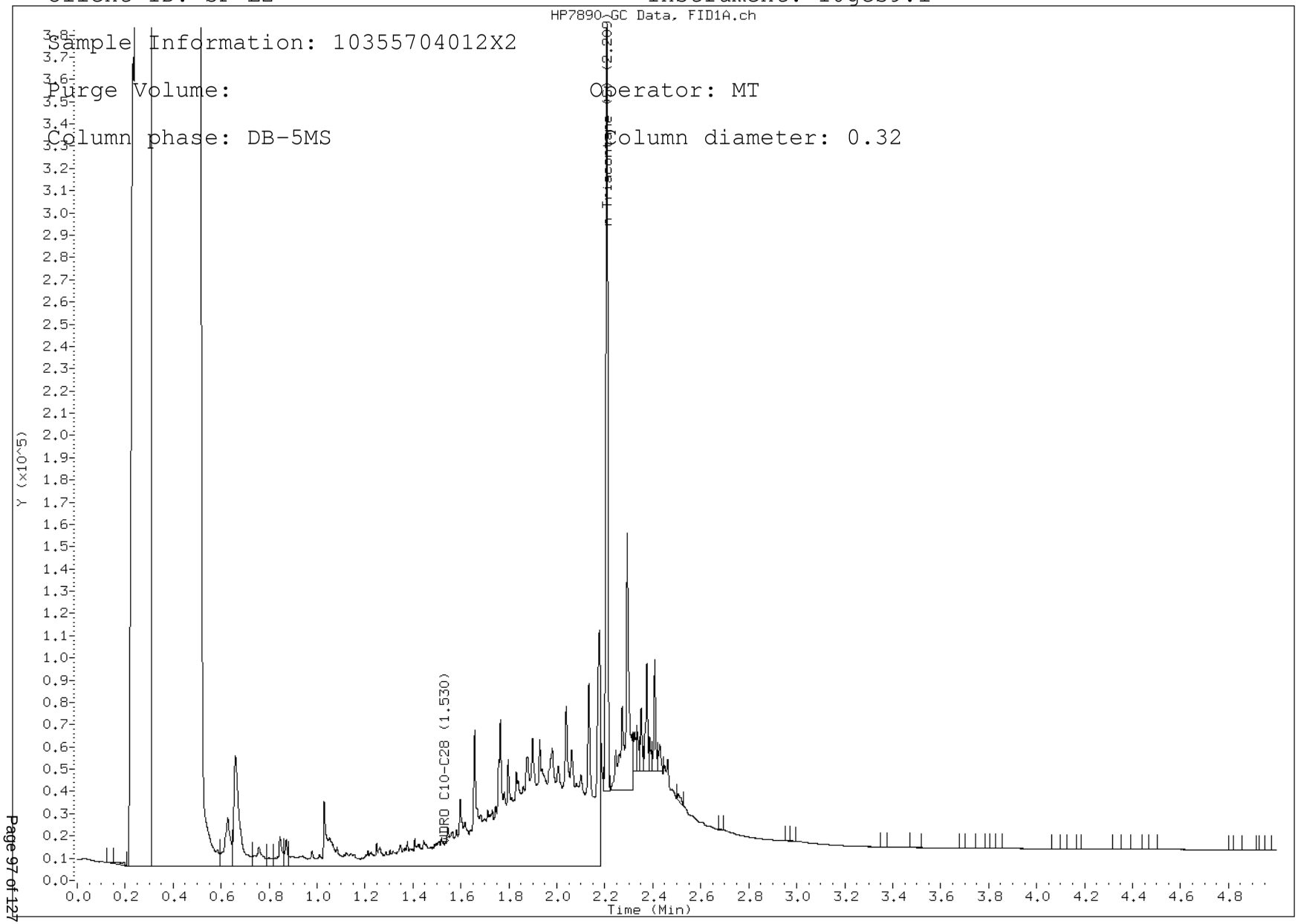
Sample ID: 10355704012

Client ID: SP-L2 Instrument: 10gcs9.i

Sample Information: 10355704012X2

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



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Report Date: 07/22/2016

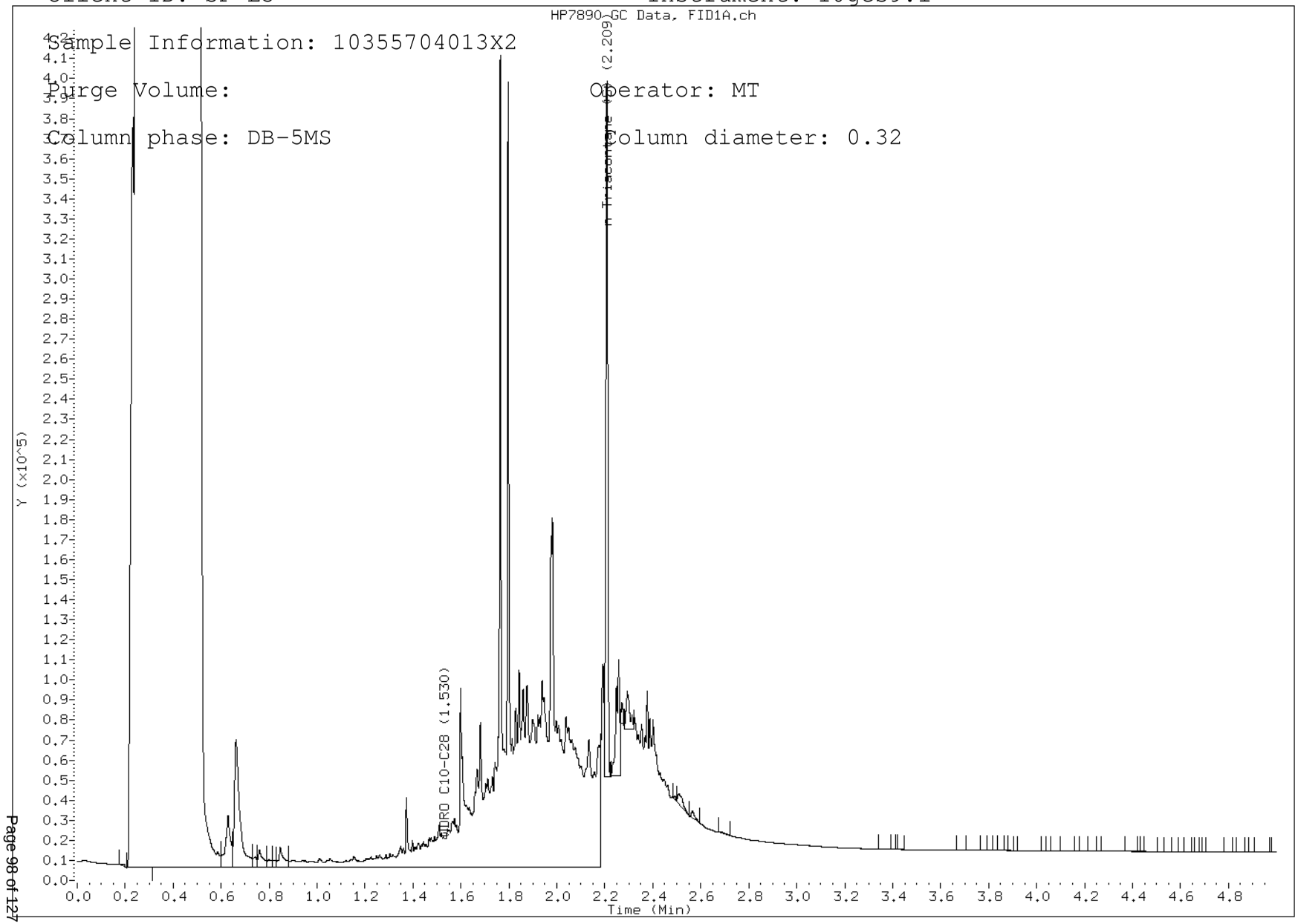
Sample ID: 10355704013

Client ID: SP-L3 Instrument: 10gcs9.i

Sample Information: 10355704013X2

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcs9.i\072116dro.b/072116000090.D

Report Date: 07/22/2016

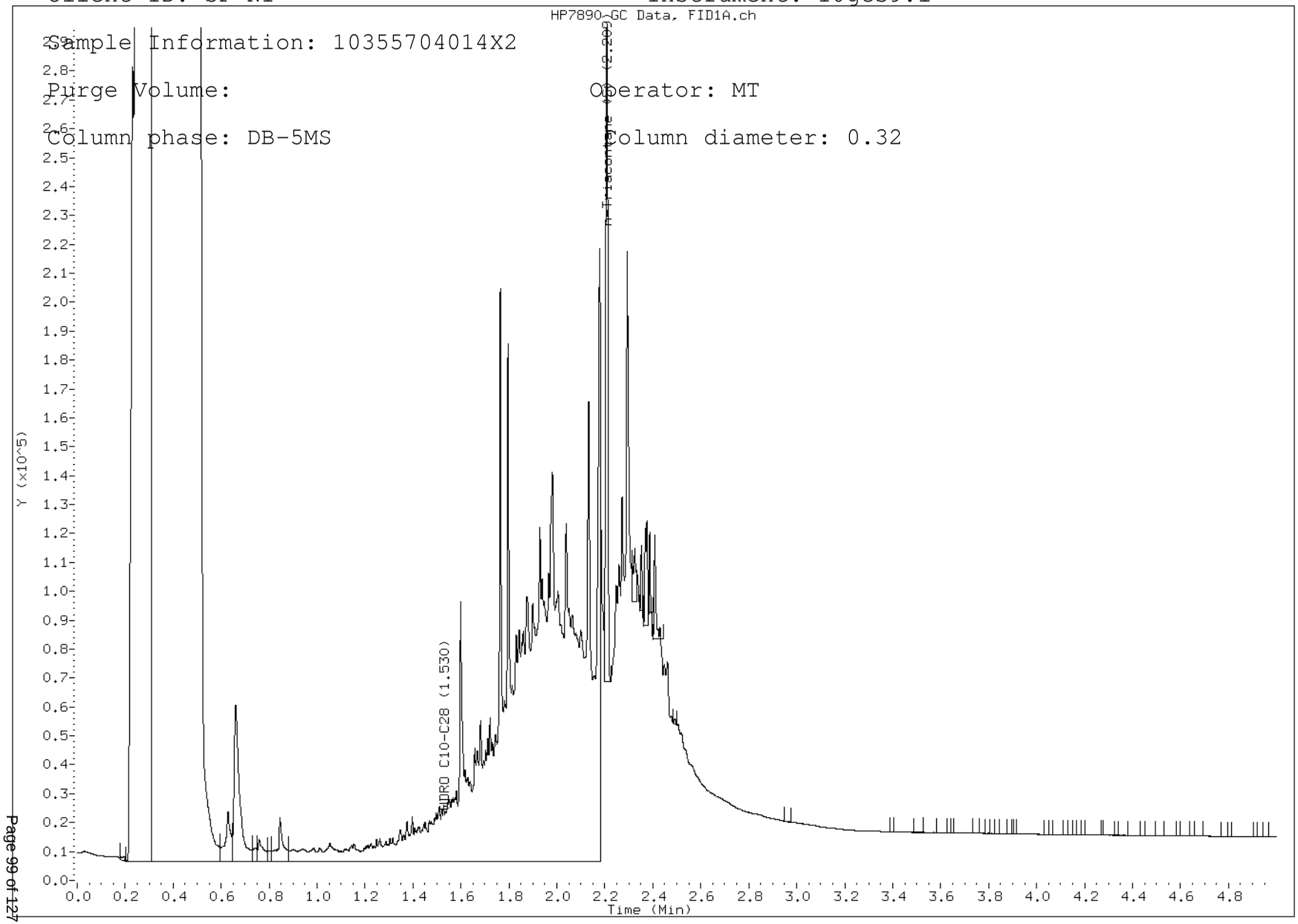
Sample ID: 10355704014

Client ID: SP-N1 Instrument: 10gcs9.i

Sample Information: 10355704014X2

Purge Volume: Operator: MT

Column phase: DB-5MS Column diameter: 0.32



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200028.d

Report Date: 07/19/2016

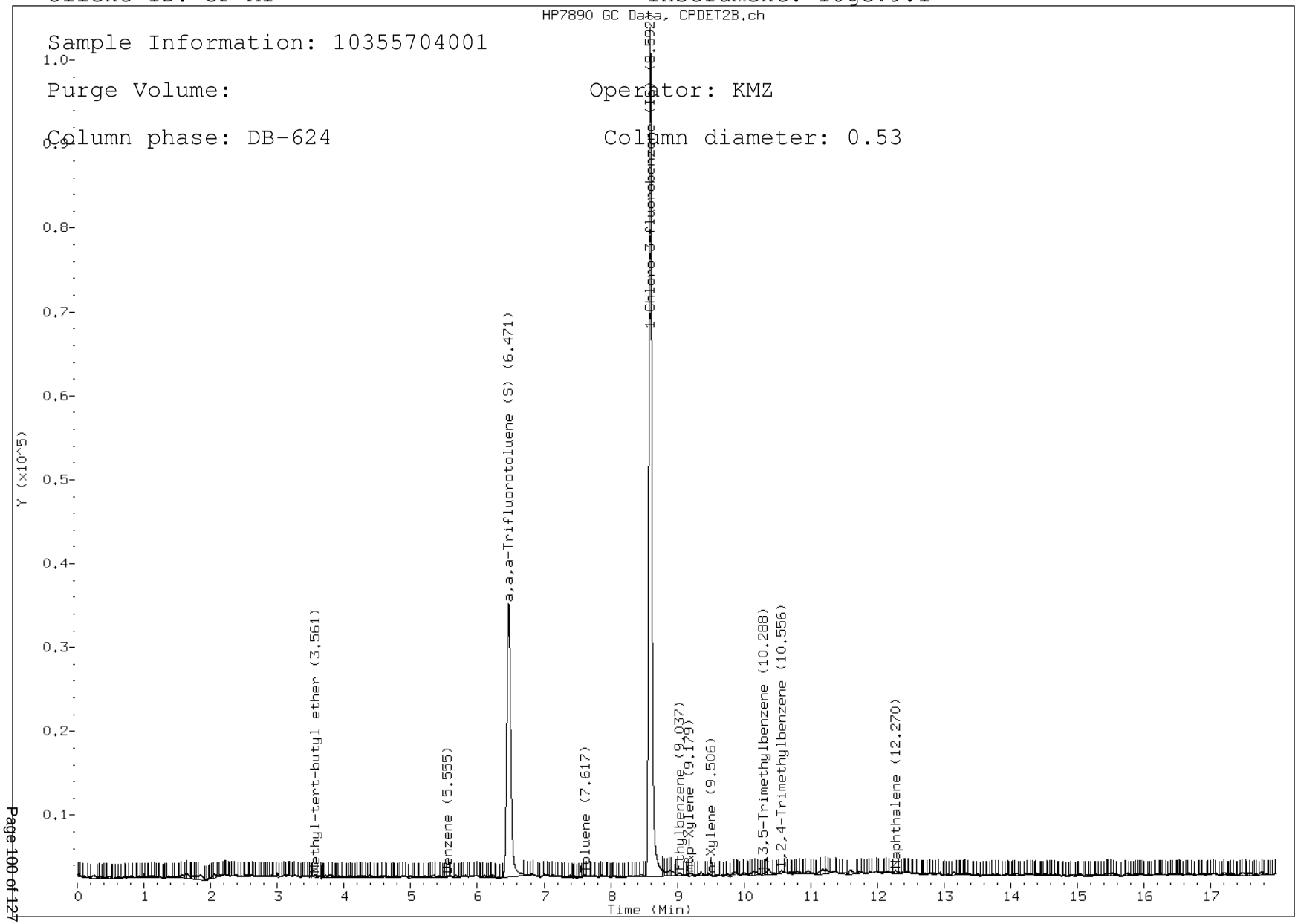
Sample ID: 10355704001

Client ID: SP-A1 Instrument: 10gcv9.i

Sample Information: 10355704001

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200028.d

Report Date: 07/19/2016

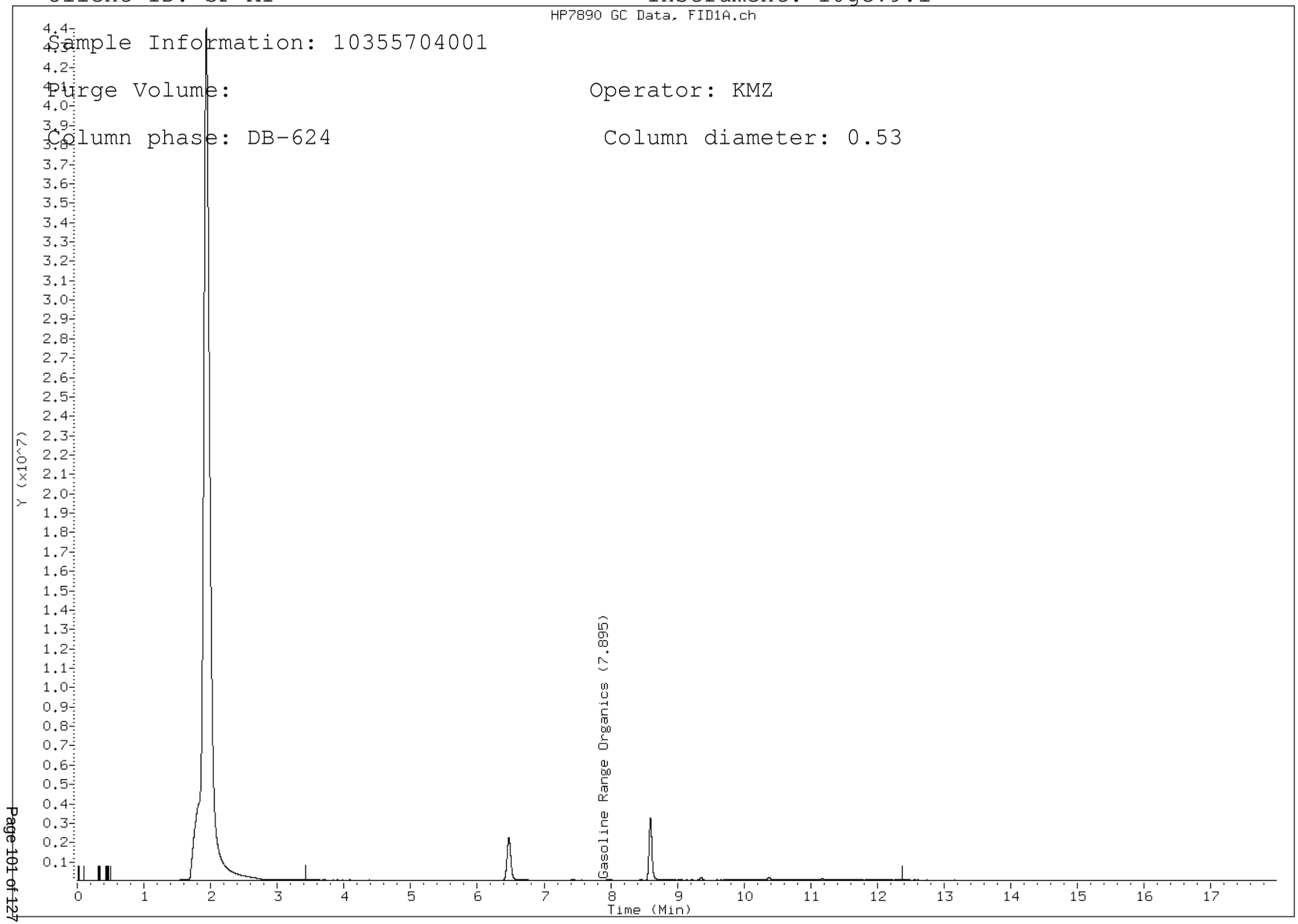
Sample ID: 10355704001

Client ID: SP-A1 Instrument: 10gcv9.i

Sample Information: 10355704001

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200029.d

Report Date: 07/19/2016

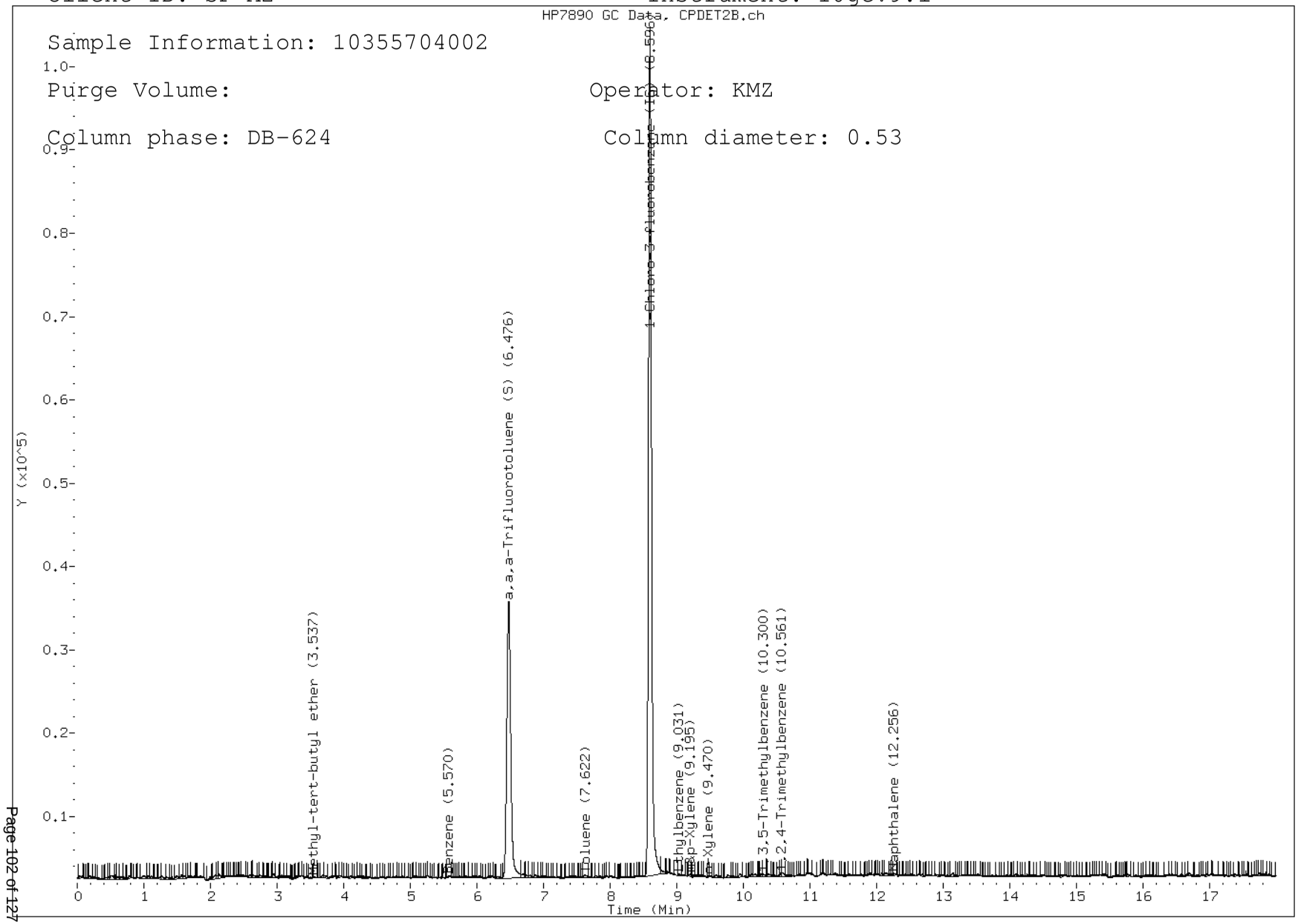
Sample ID: 10355704002

Client ID: SP-A2 Instrument: 10gcv9.i

Sample Information: 10355704002

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



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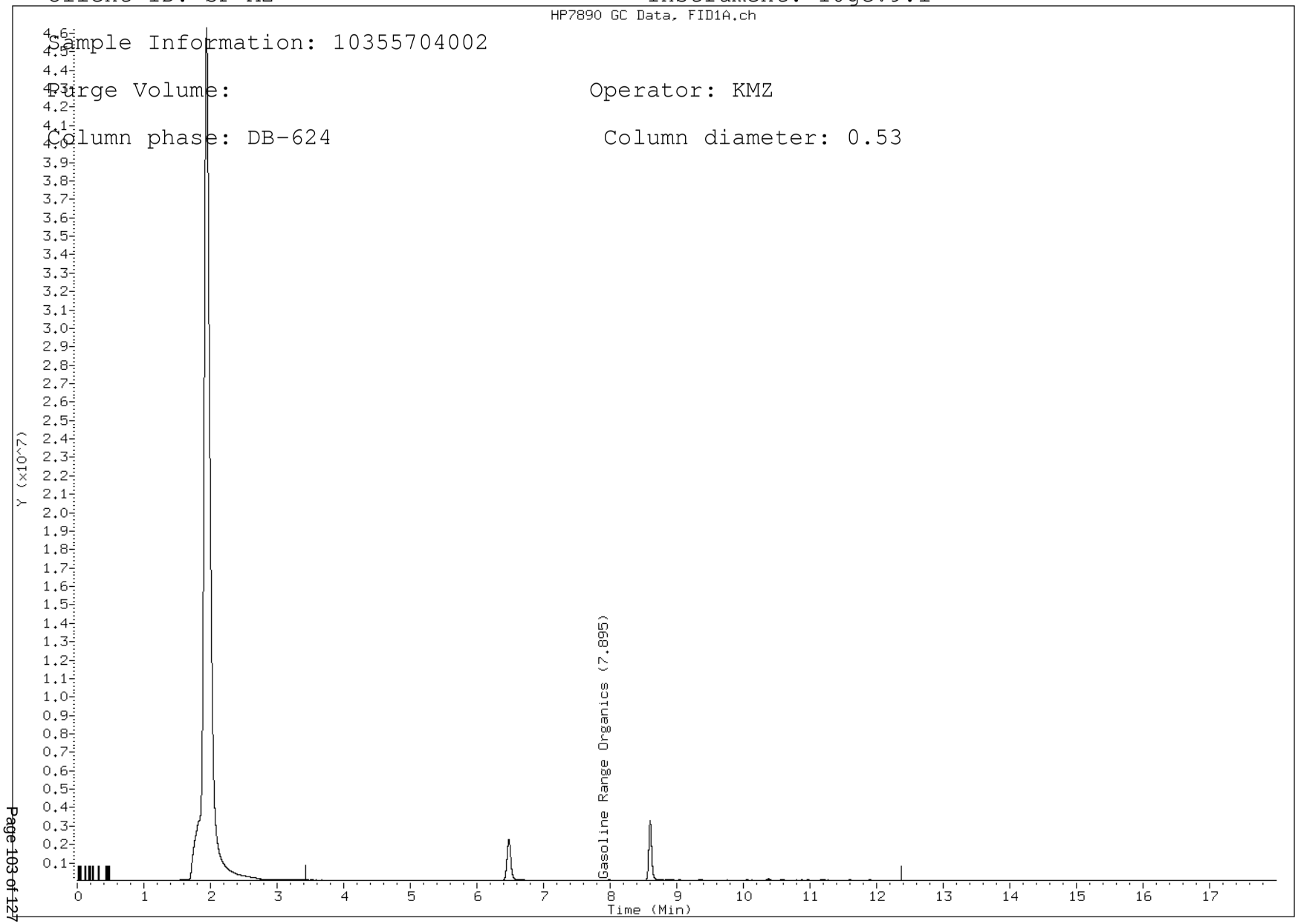
Report Date: 07/19/2016

Sample ID: 10355704002

Client ID: SP-A2 Instrument: 10gcv9.i



Sample Information: 10355704002

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200030.d

Report Date: 07/19/2016

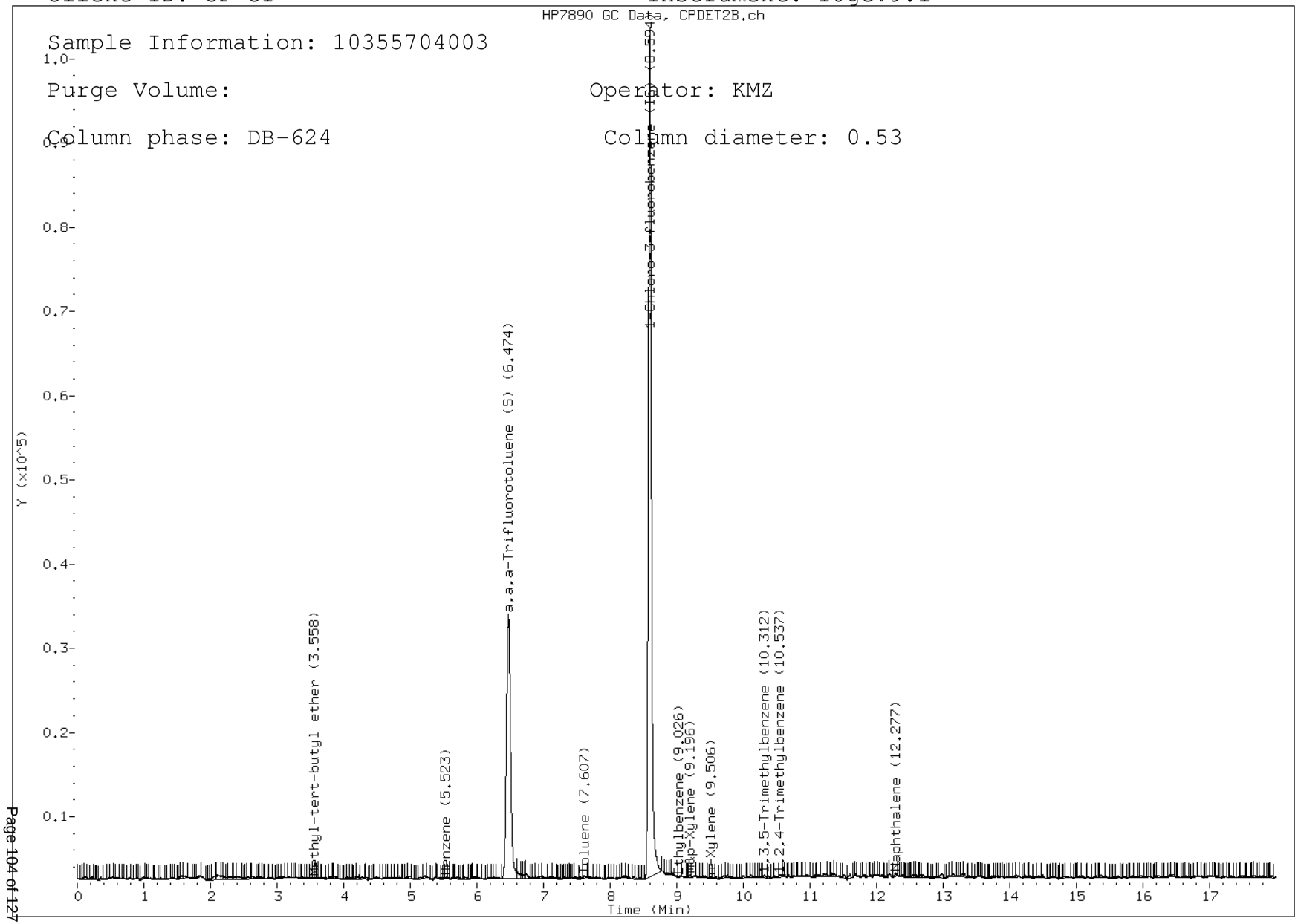
Sample ID: 10355704003

Client ID: SP-C1 Instrument: 10gcv9.i

Sample Information: 10355704003

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

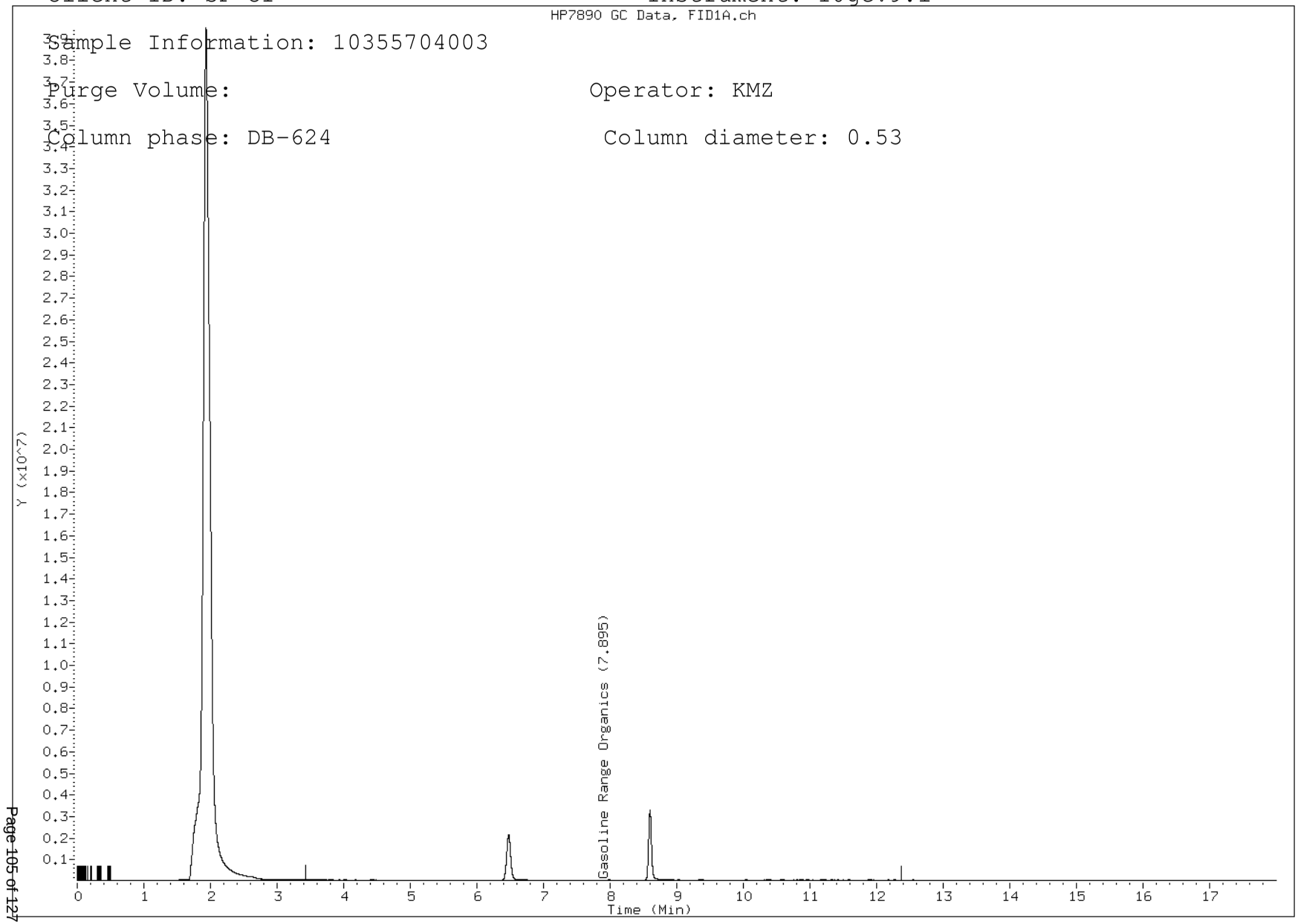


Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200030.d

Report Date: 07/19/2016

Sample ID: 10355704003

Client ID: SP-C1 Instrument: 10gcv9.i



Sample Information: 10355704003

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200031.d

Report Date: 07/19/2016

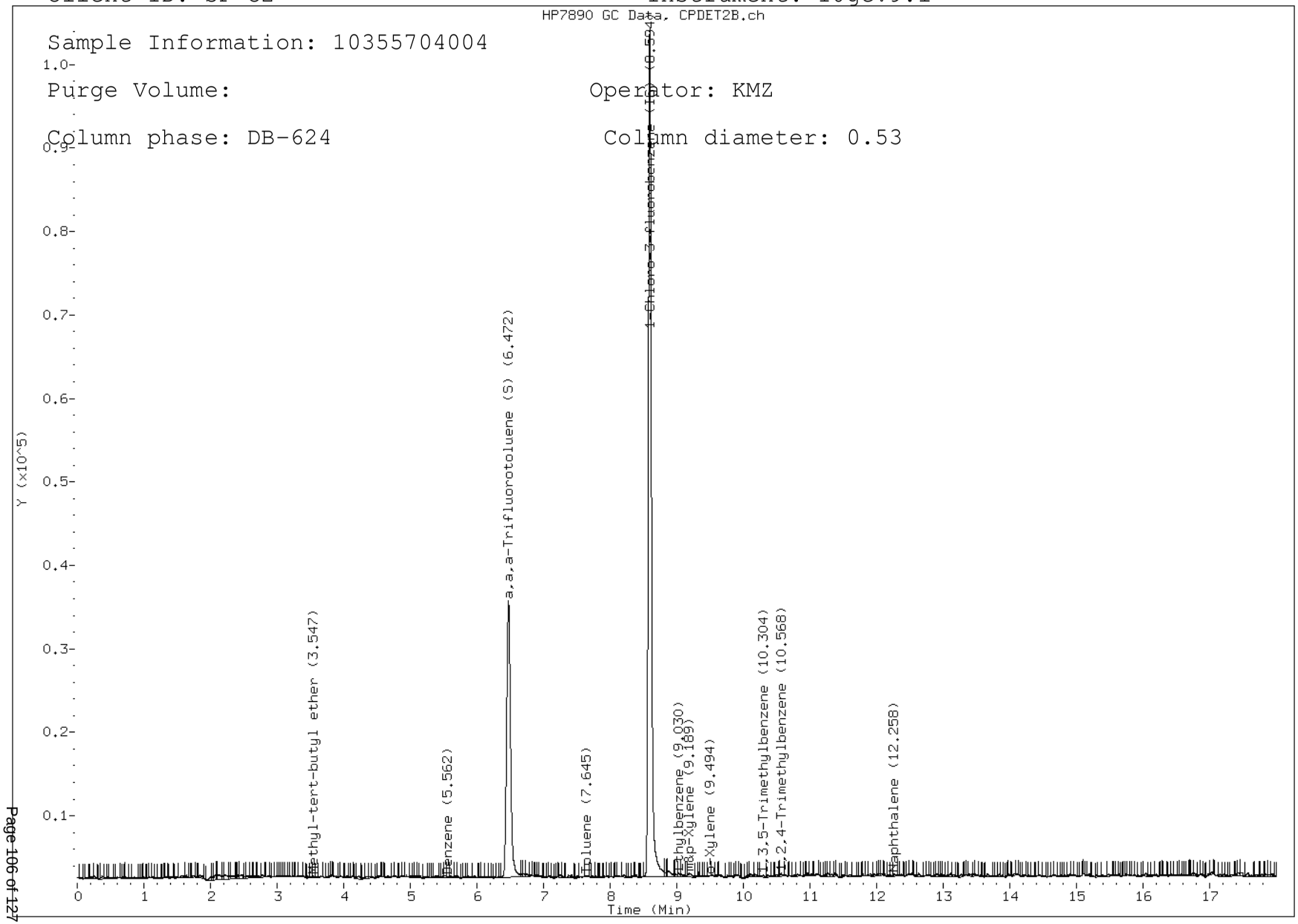
Sample ID: 10355704004

Client ID: SP-C2 Instrument: 10gcv9.i

Sample Information: 10355704004

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

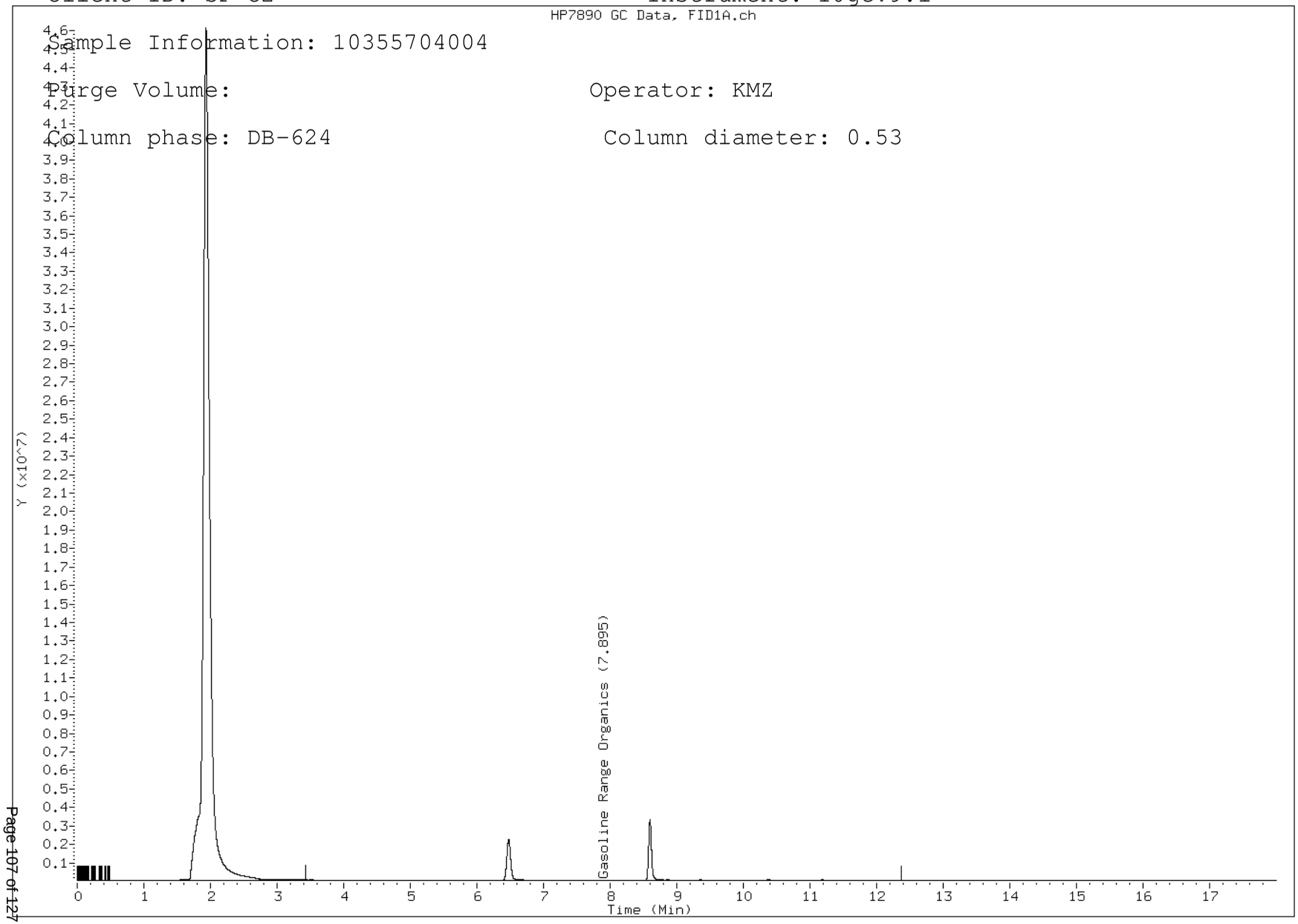


Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200031.d

Report Date: 07/19/2016

Sample ID: 10355704004

Client ID: SP-C2 Instrument: 10gcv9.i



Sample Information: 10355704004

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200032.d

Report Date: 07/19/2016

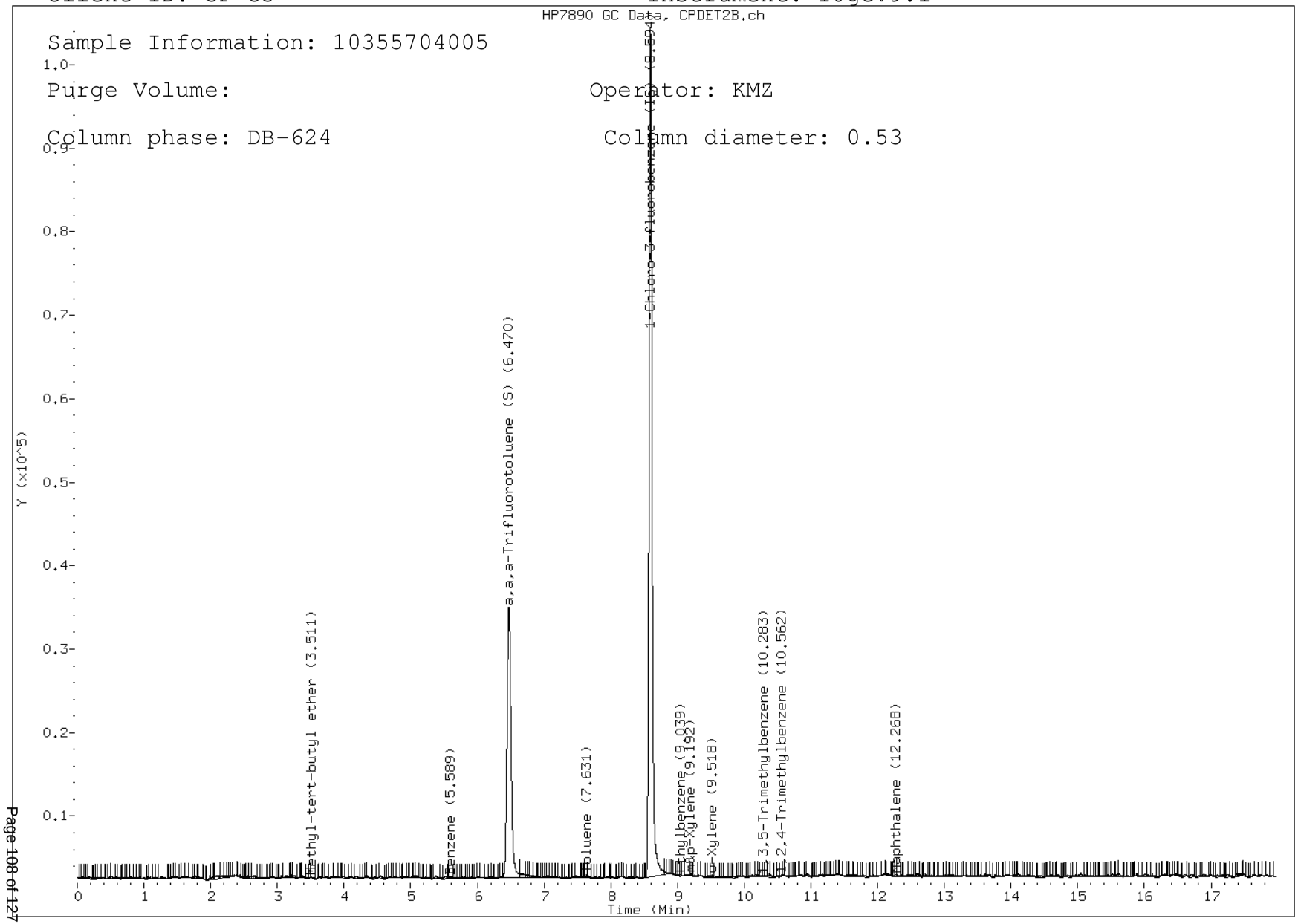
Sample ID: 10355704005

Client ID: SP-C3 Instrument: 10gcv9.i

Sample Information: 10355704005

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

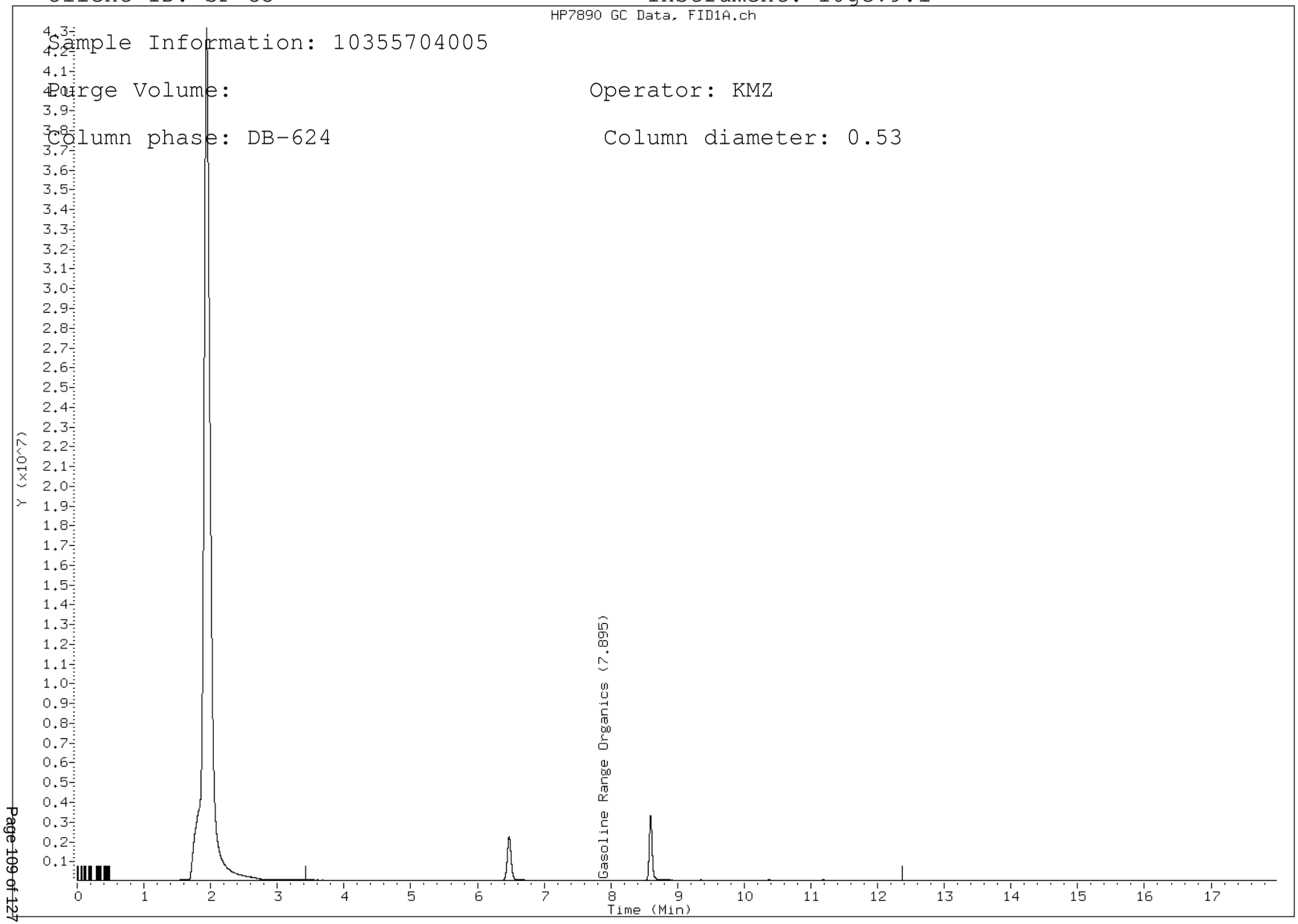


Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200032.d

Report Date: 07/19/2016

Sample ID: 10355704005

Client ID: SP-C3 Instrument: 10gcv9.i



Sample Information: 10355704005

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200033.d

Report Date: 07/19/2016

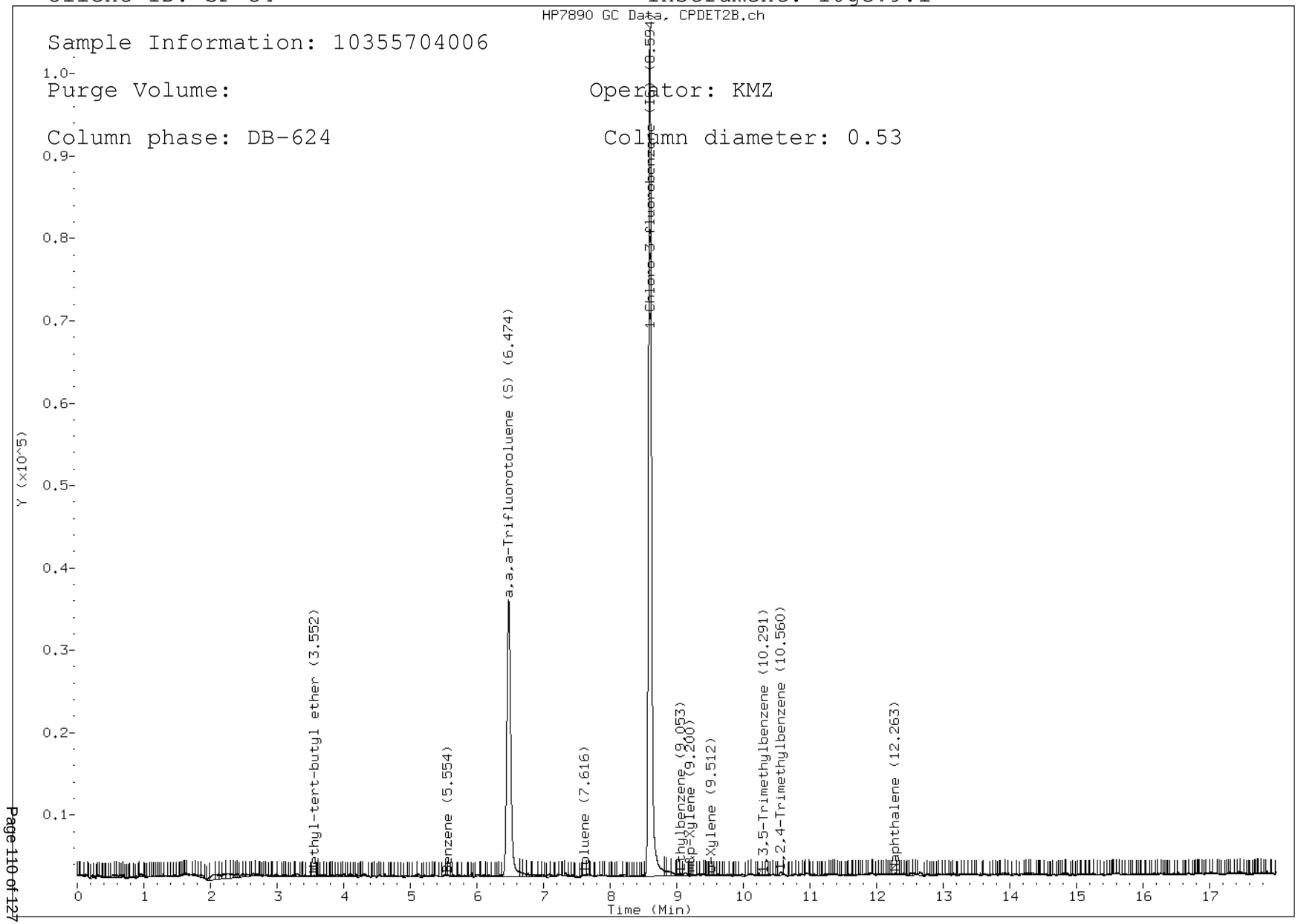
Sample ID: 10355704006

Client ID: SP-C4 Instrument: 10gcv9.i

Sample Information: 10355704006

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200033.d

Report Date: 07/19/2016

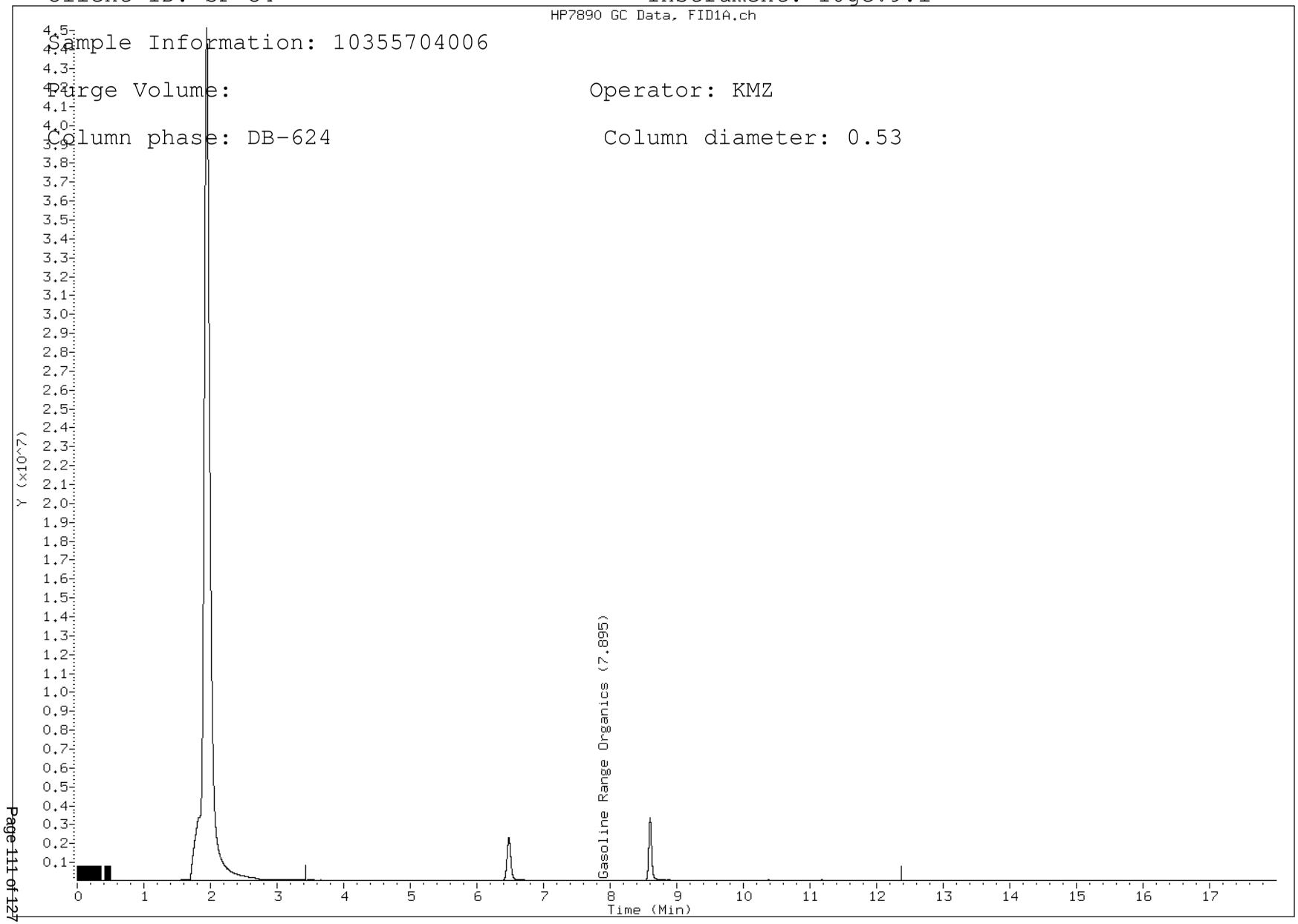
Sample ID: 10355704006

Client ID: SP-C4 Instrument: 10gcv9.i

Sample Information: 10355704006

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200034.d

Report Date: 07/19/2016

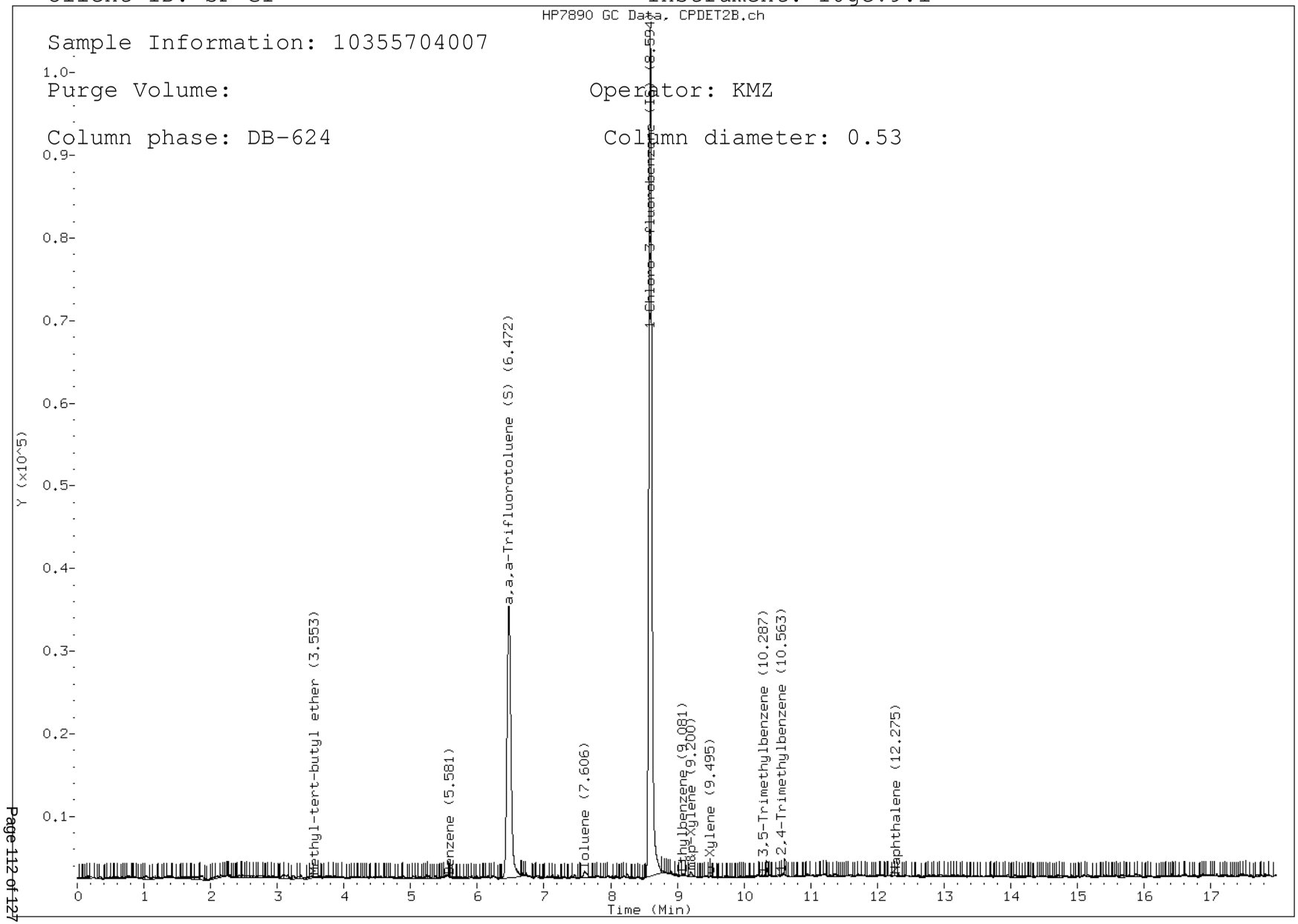
Sample ID: 10355704007

Client ID: SP-G1 Instrument: 10gcv9.i

Sample Information: 10355704007

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200034.d

Report Date: 07/19/2016

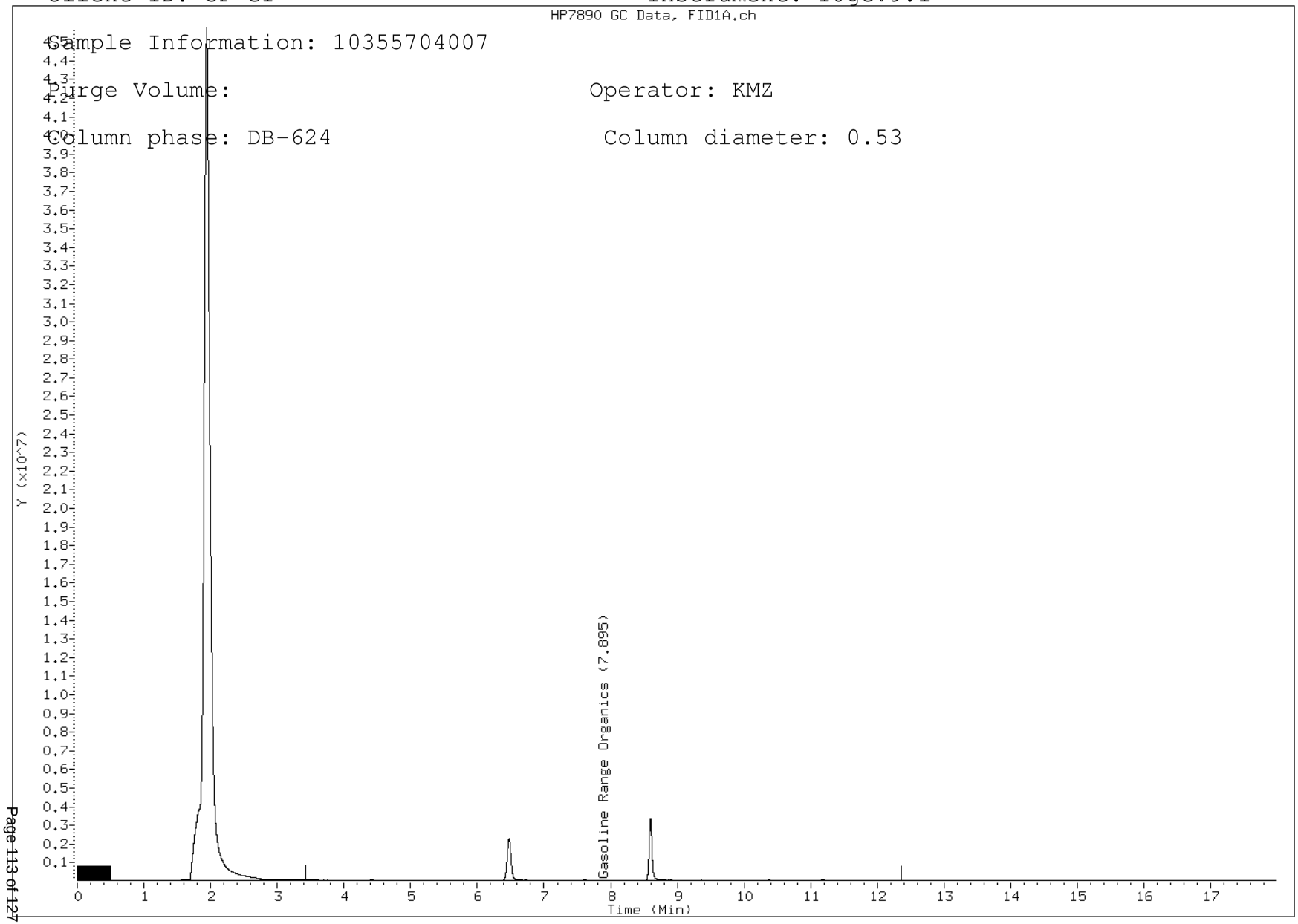
Sample ID: 10355704007

Client ID: SP-G1 Instrument: 10gcv9.i

Sample Information: 10355704007

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200016.d

Report Date: 07/19/2016

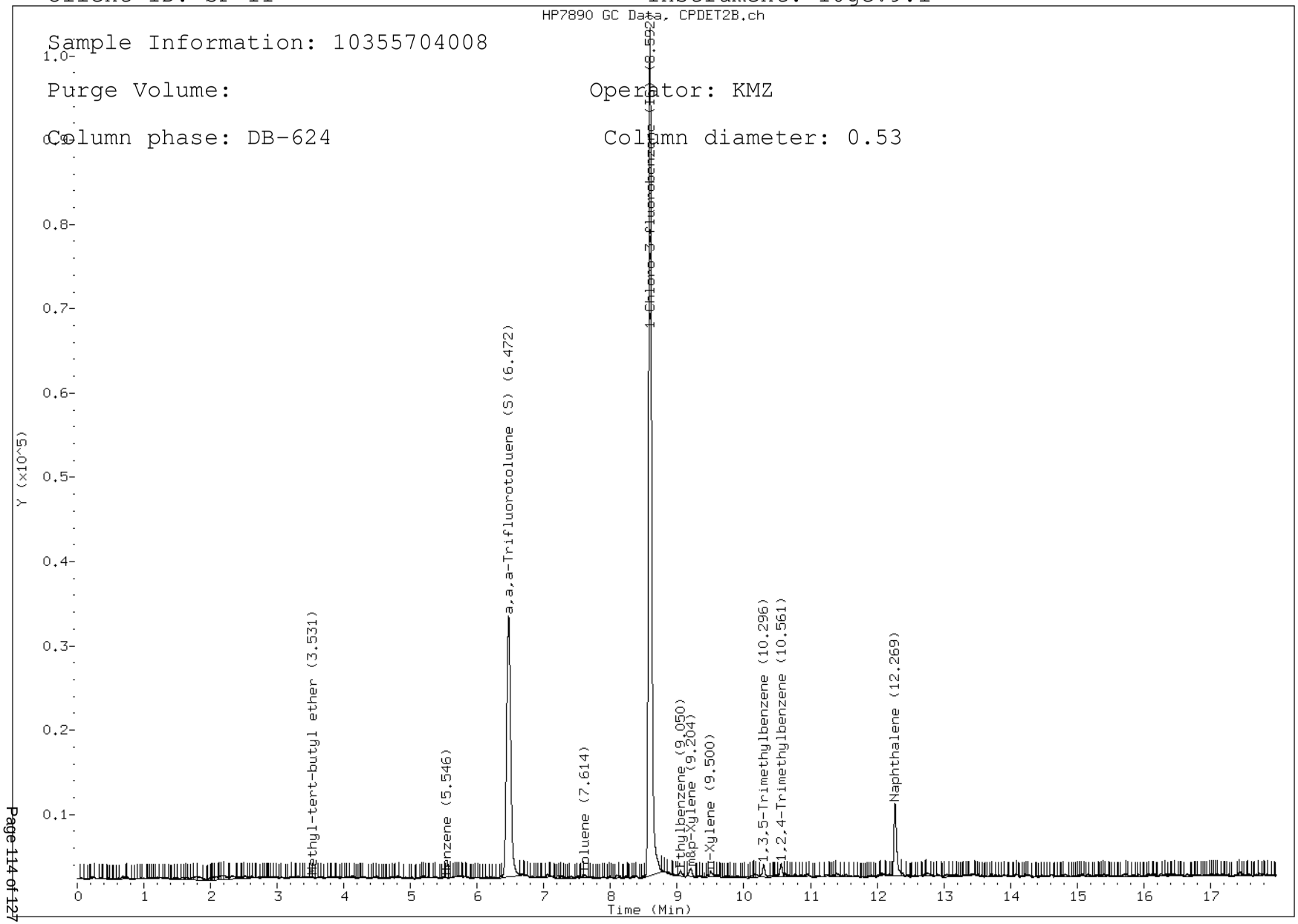
Sample ID: 10355704008

Client ID: SP-I1 Instrument: 10gcv9.i

Sample Information: 10355704008

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

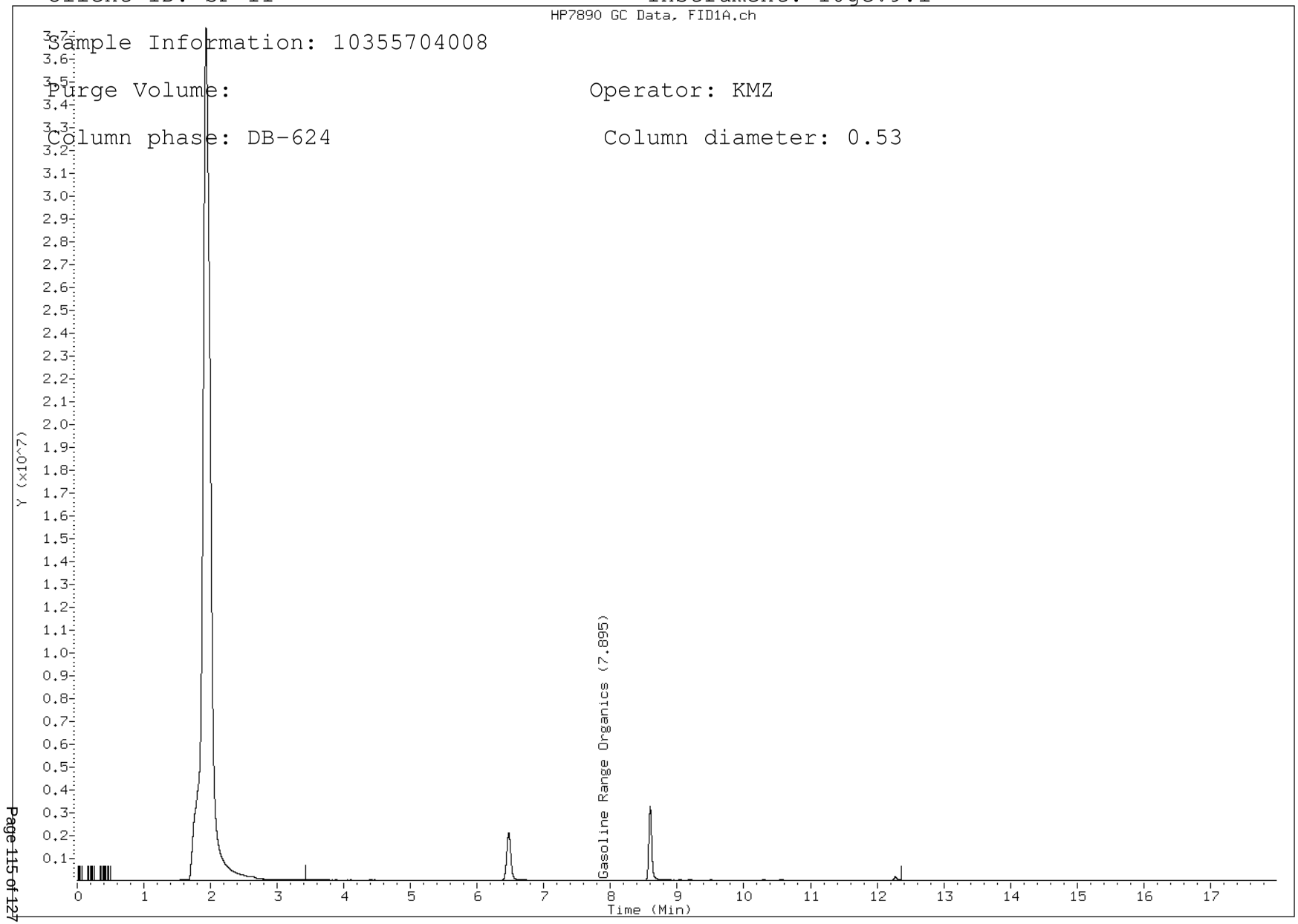


Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200016.d

Report Date: 07/19/2016

Sample ID: 10355704008

Client ID: SP-I1 Instrument: 10gcv9.i



Sample Information: 10355704008

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200035.d

Report Date: 07/19/2016

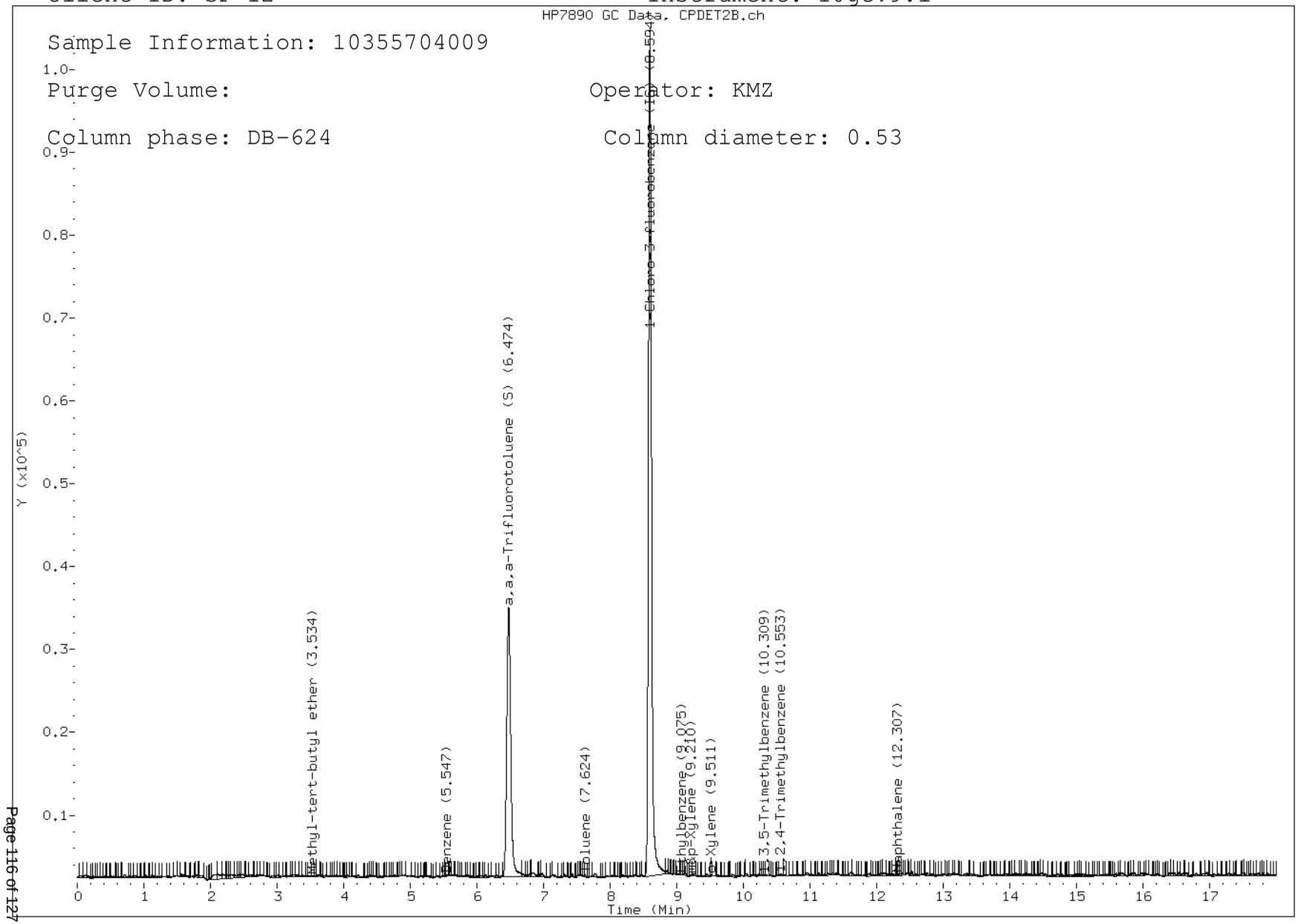
Sample ID: 10355704009

Client ID: SP-I2 Instrument: 10gcv9.i

Sample Information: 10355704009

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200035.d

Report Date: 07/19/2016

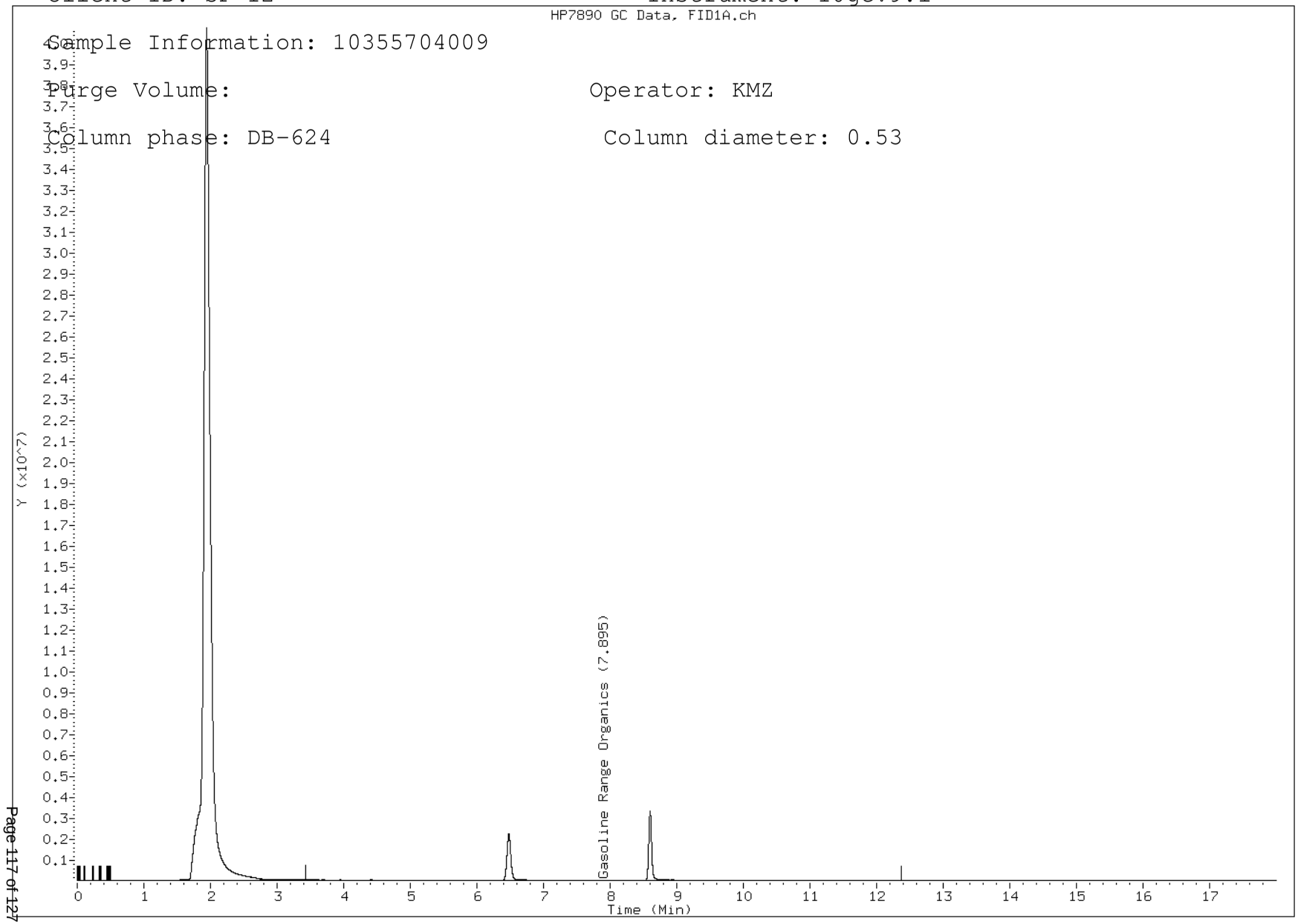
Sample ID: 10355704009

Client ID: SP-I2 Instrument: 10gcv9.i

Sample Information: 10355704009

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200036.d

Report Date: 07/19/2016

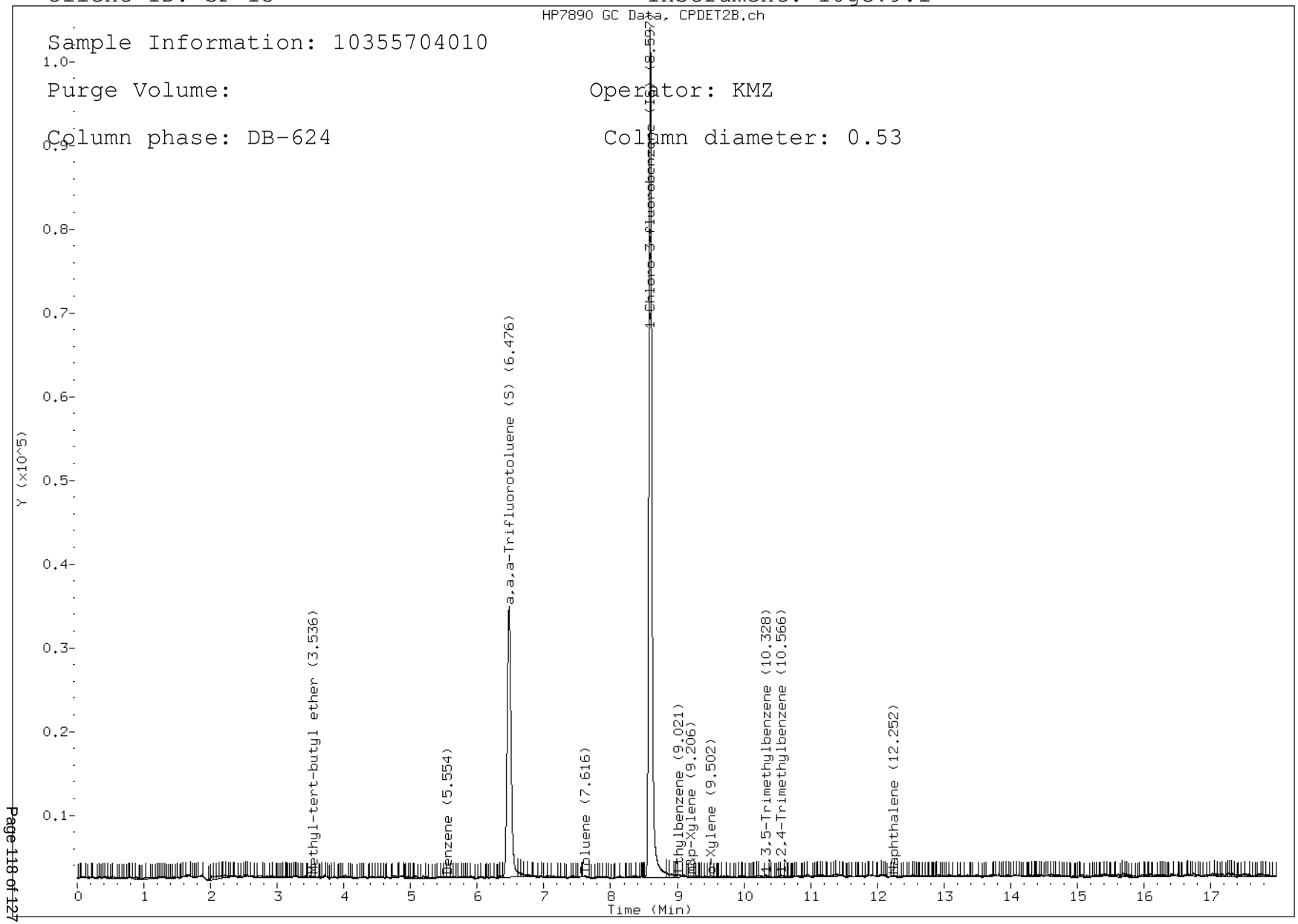
Sample ID: 10355704010

Client ID: SP-I3 Instrument: 10gcv9.i

Sample Information: 10355704010

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200036.d

Report Date: 07/19/2016

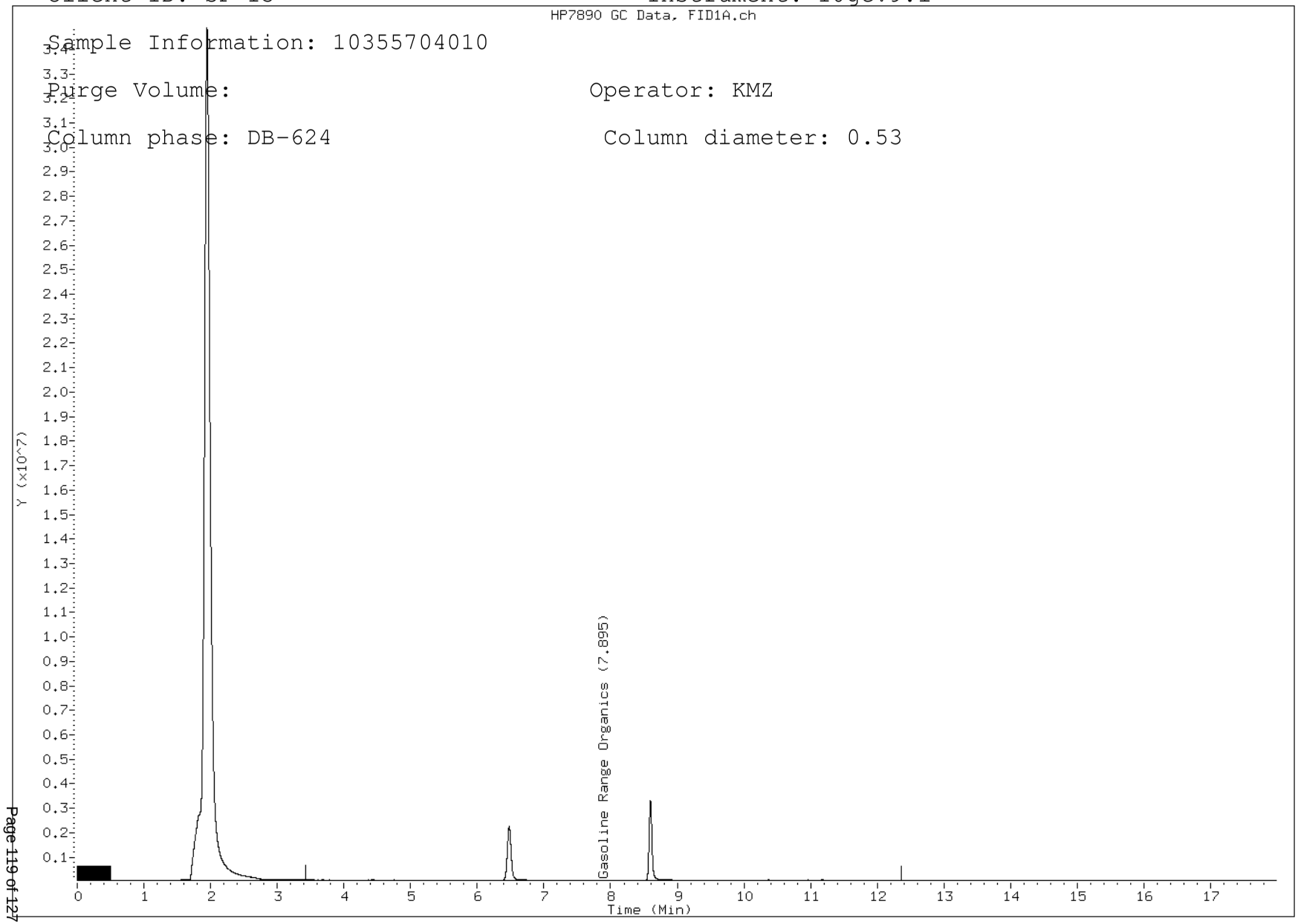
Sample ID: 10355704010

Client ID: SP-I3 Instrument: 10gcv9.i

Sample Information: 10355704010

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200037.d

Report Date: 07/19/2016

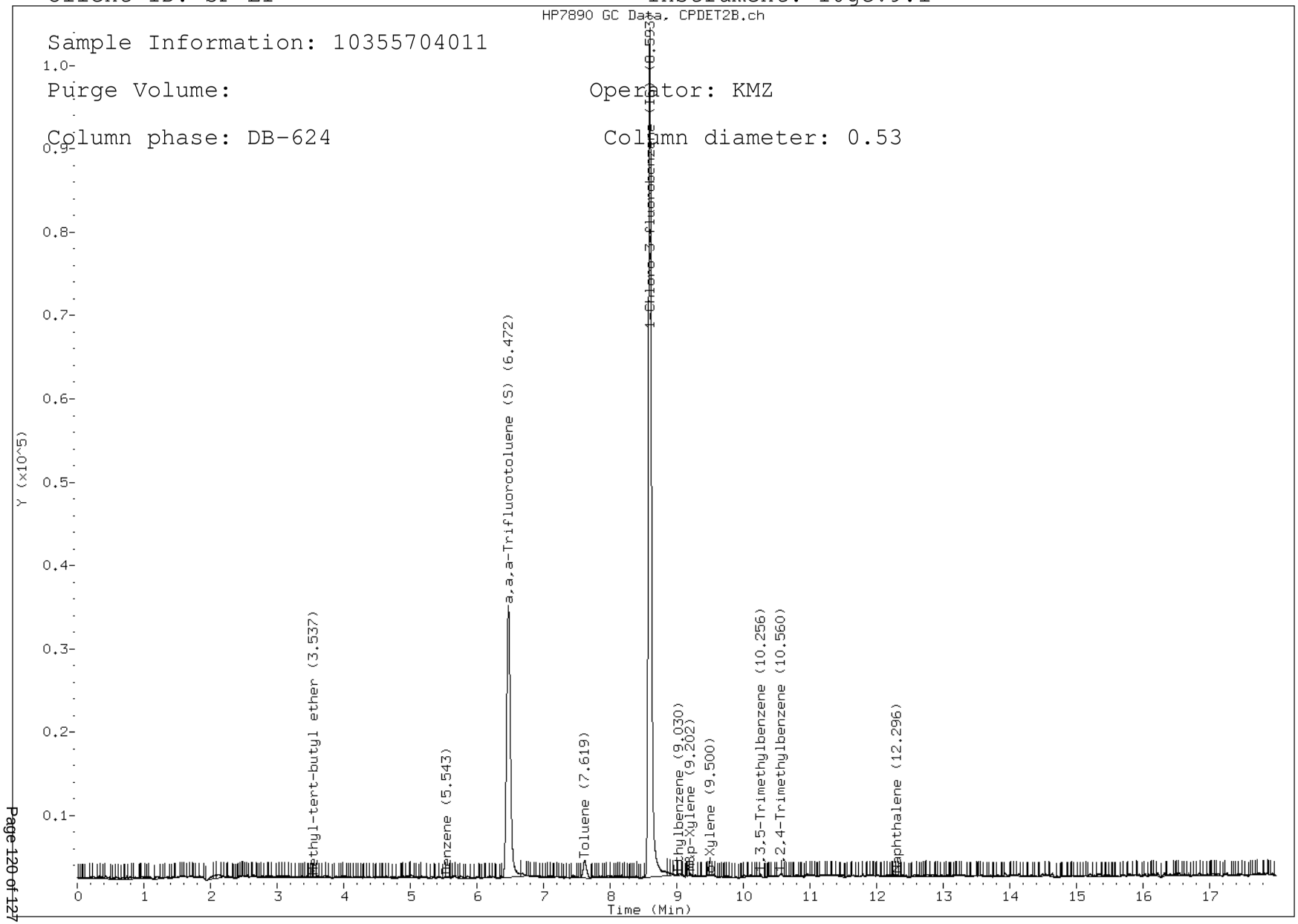
Sample ID: 10355704011

Client ID: SP-L1 Instrument: 10gcv9.i

Sample Information: 10355704011

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200037.d

Report Date: 07/19/2016

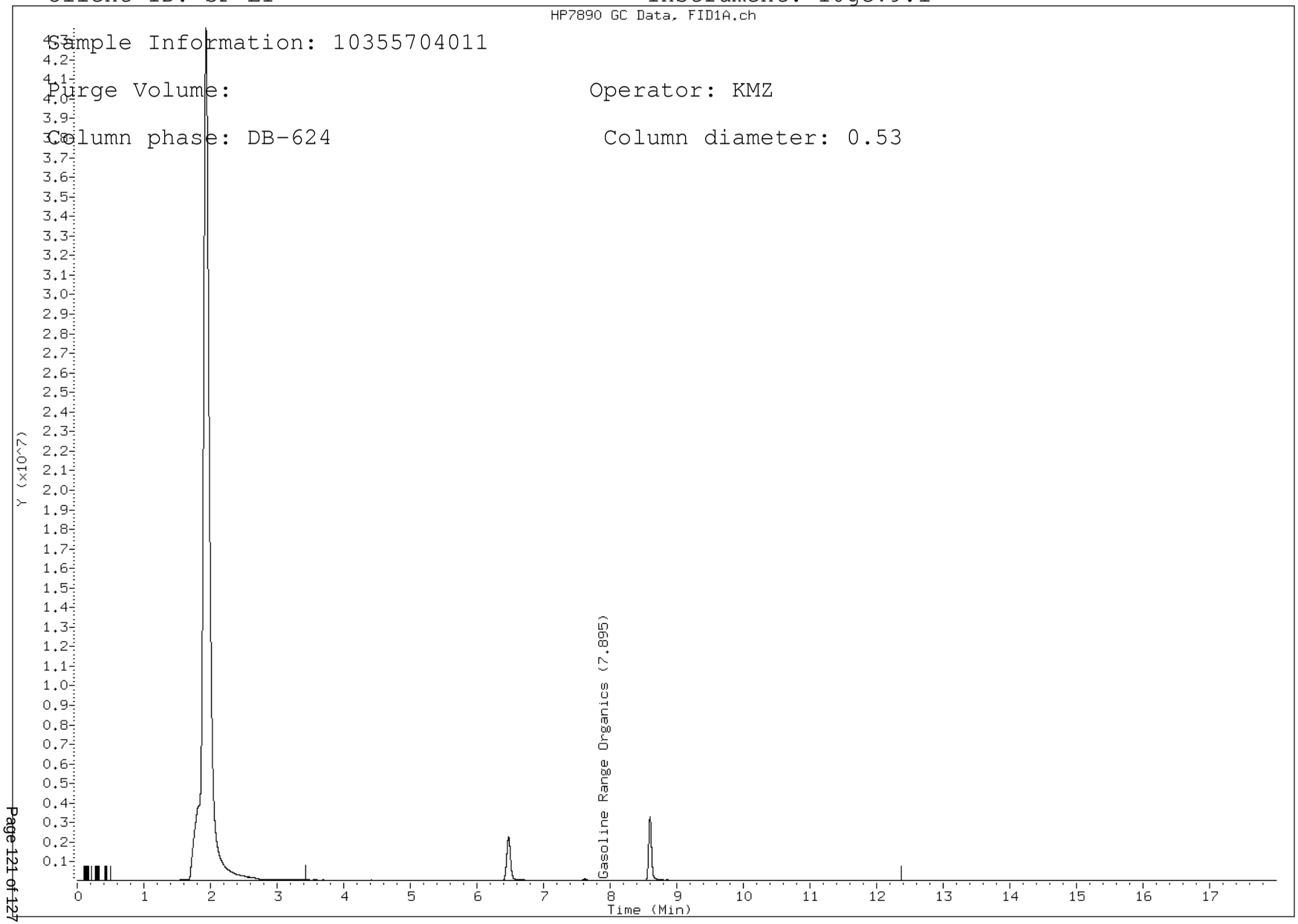
Sample ID: 10355704011

Client ID: SP-L1 Instrument: 10gcv9.i

Sample Information: 10355704011

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071816-1.b/200038.d

Report Date: 07/19/2016

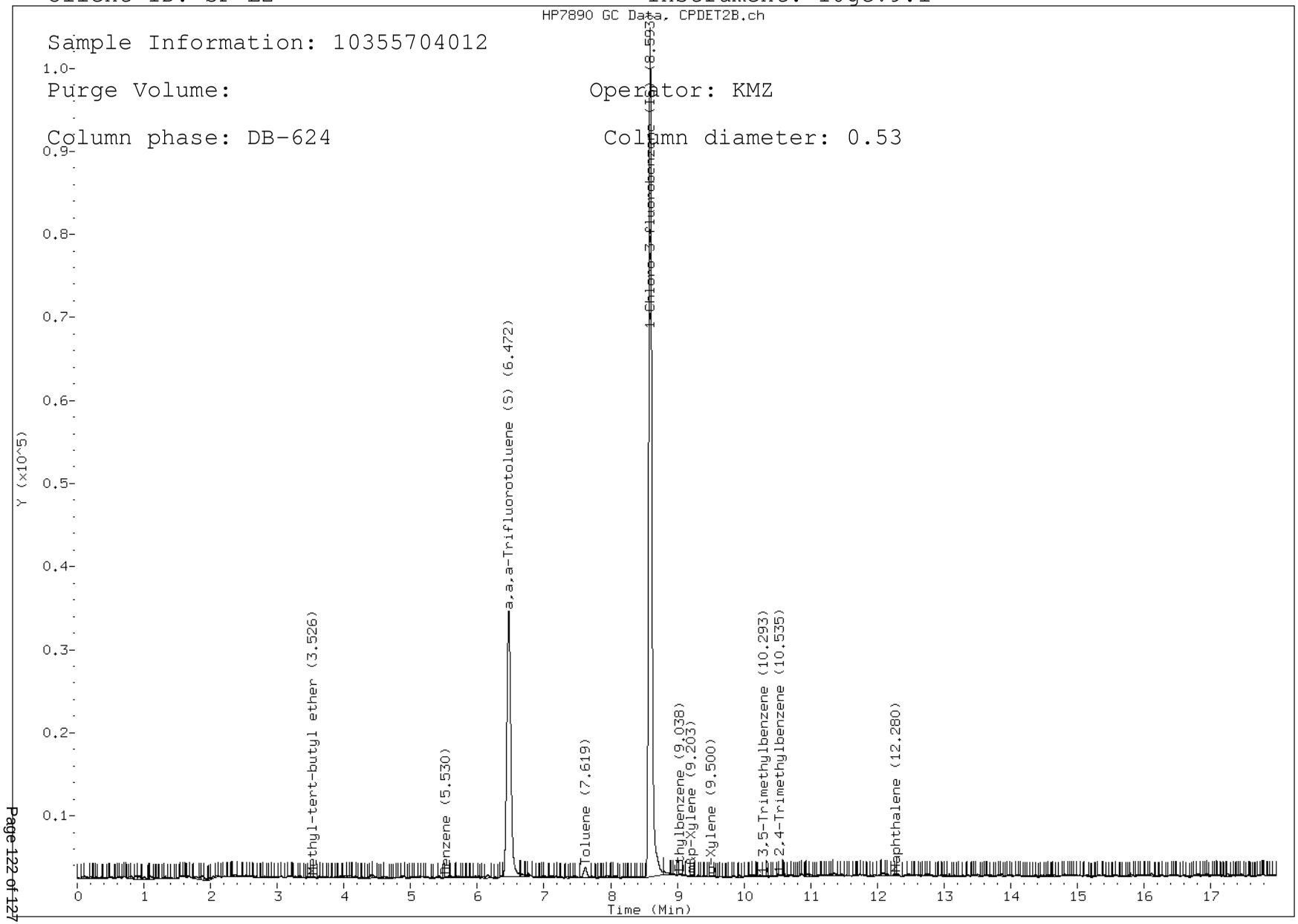
Sample ID: 10355704012

Client ID: SP-L2 Instrument: 10gcv9.i

Sample Information: 10355704012

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

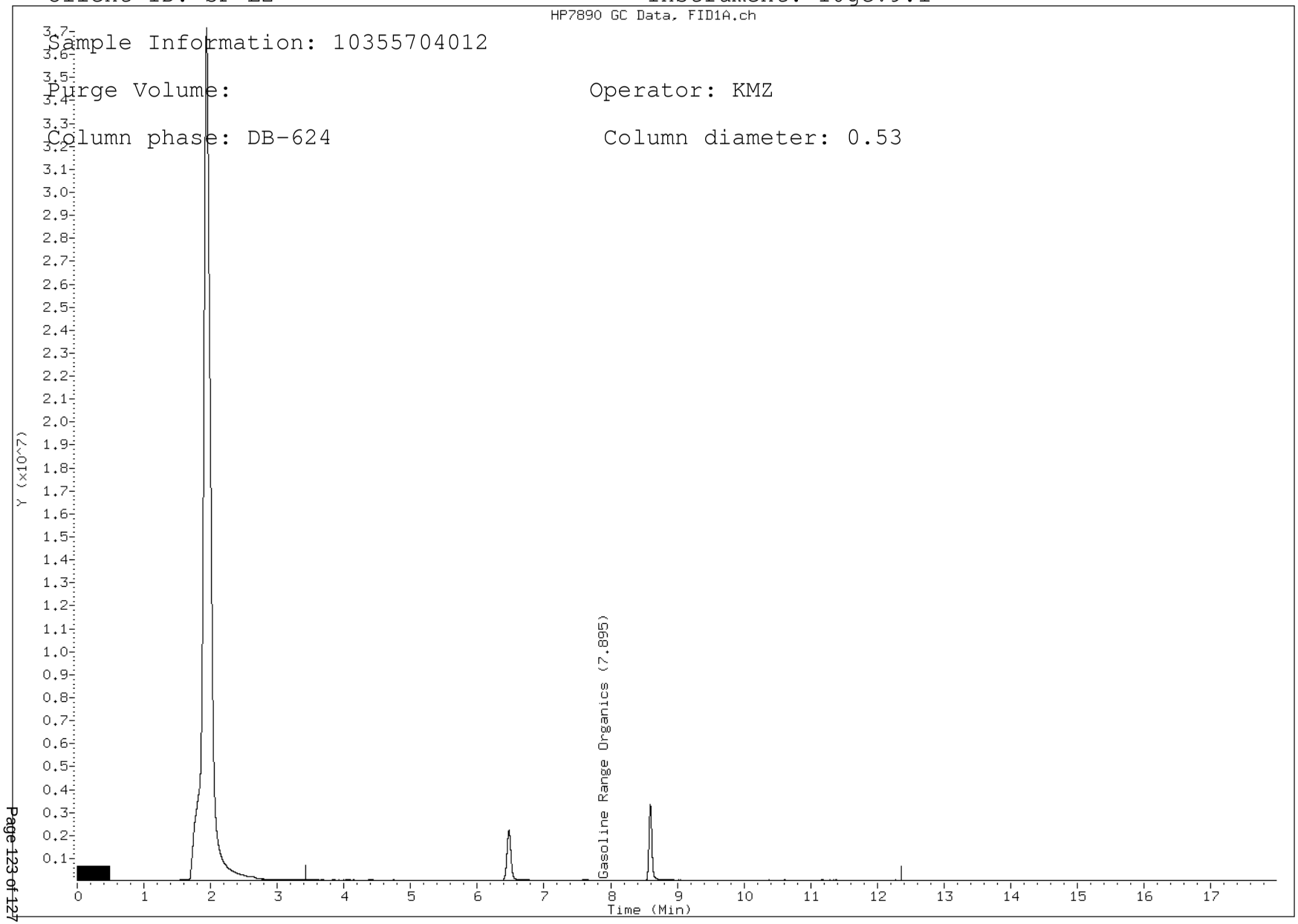


Data File: \\192.168.10.12\chem\10gcv9.i\071816-2.b/200038.d

Report Date: 07/19/2016

Sample ID: 10355704012

Client ID: SP-L2 Instrument: 10gcv9.i



Sample Information: 10355704012

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53

Data File: \\192.168.10.12\chem\10gcv9.i\071916-1.b/201011.d

Report Date: 07/20/2016

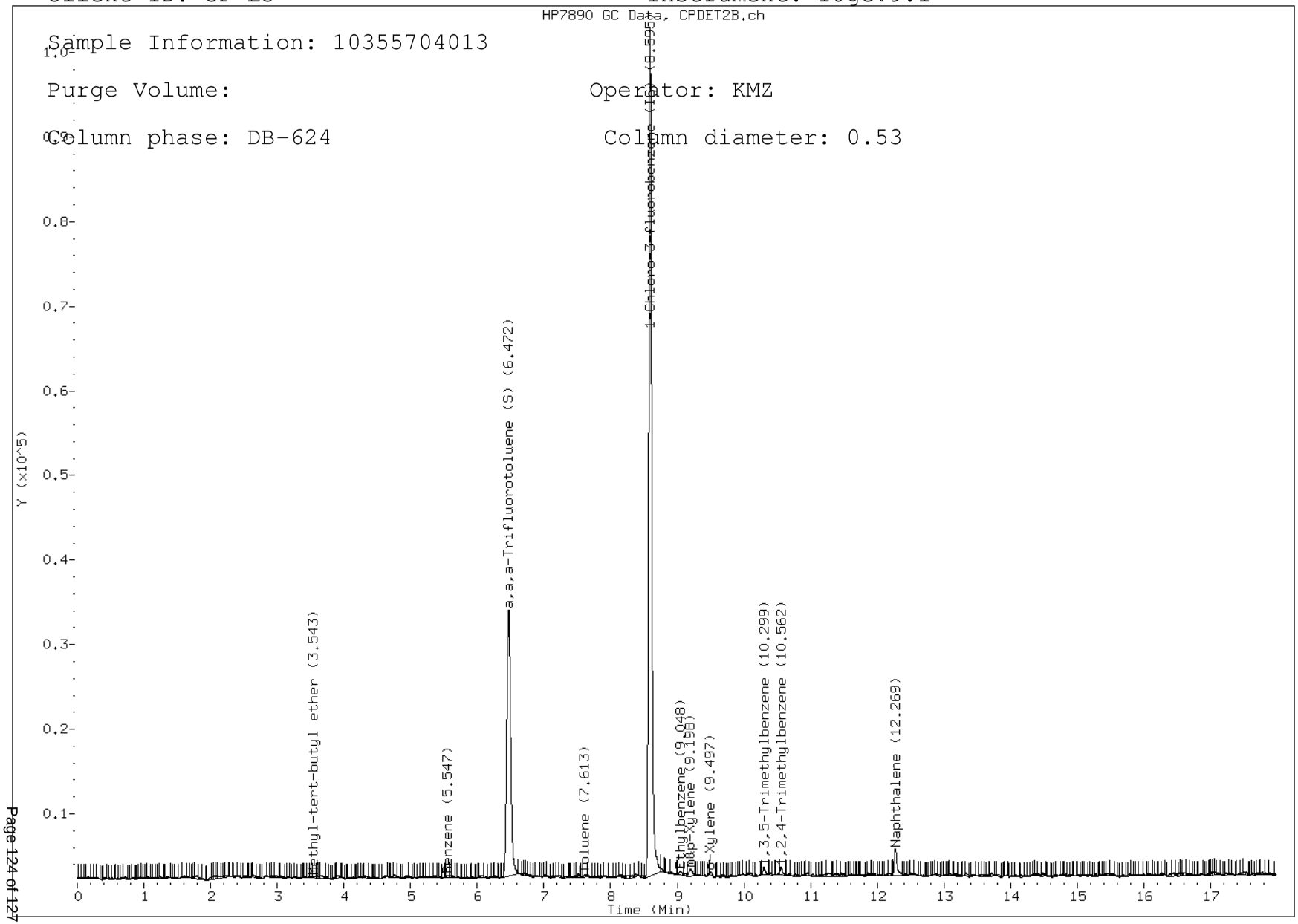
Sample ID: 10355704013

Client ID: SP-L3 Instrument: 10gcv9.i

Sample Information: 10355704013

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071916-2.b/201011.d

Report Date: 07/20/2016

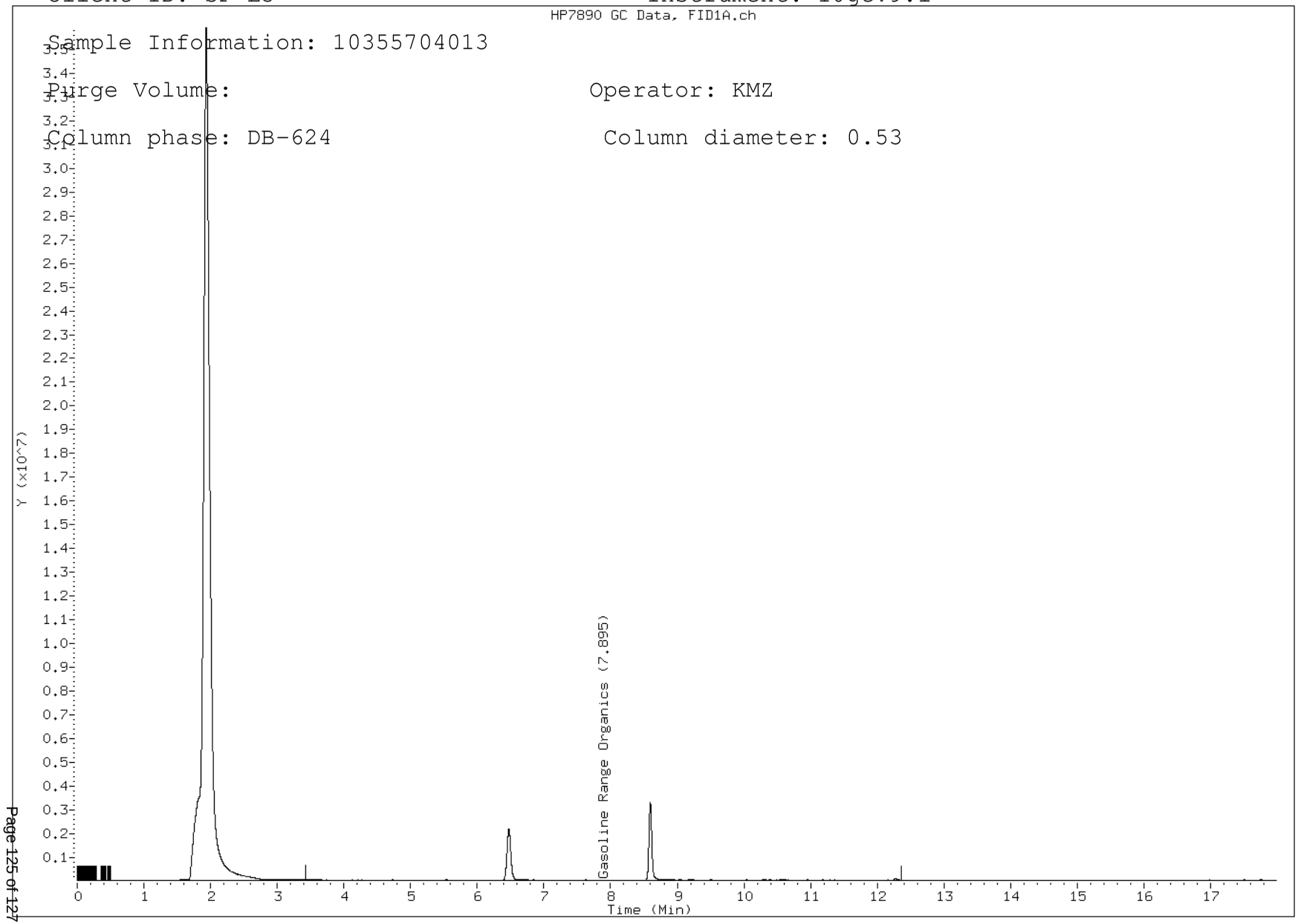
Sample ID: 10355704013

Client ID: SP-L3 Instrument: 10gcv9.i

Sample Information: 10355704013

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



Data File: \\192.168.10.12\chem\10gcv9.i\071916-1.b/201014.d

Report Date: 07/20/2016

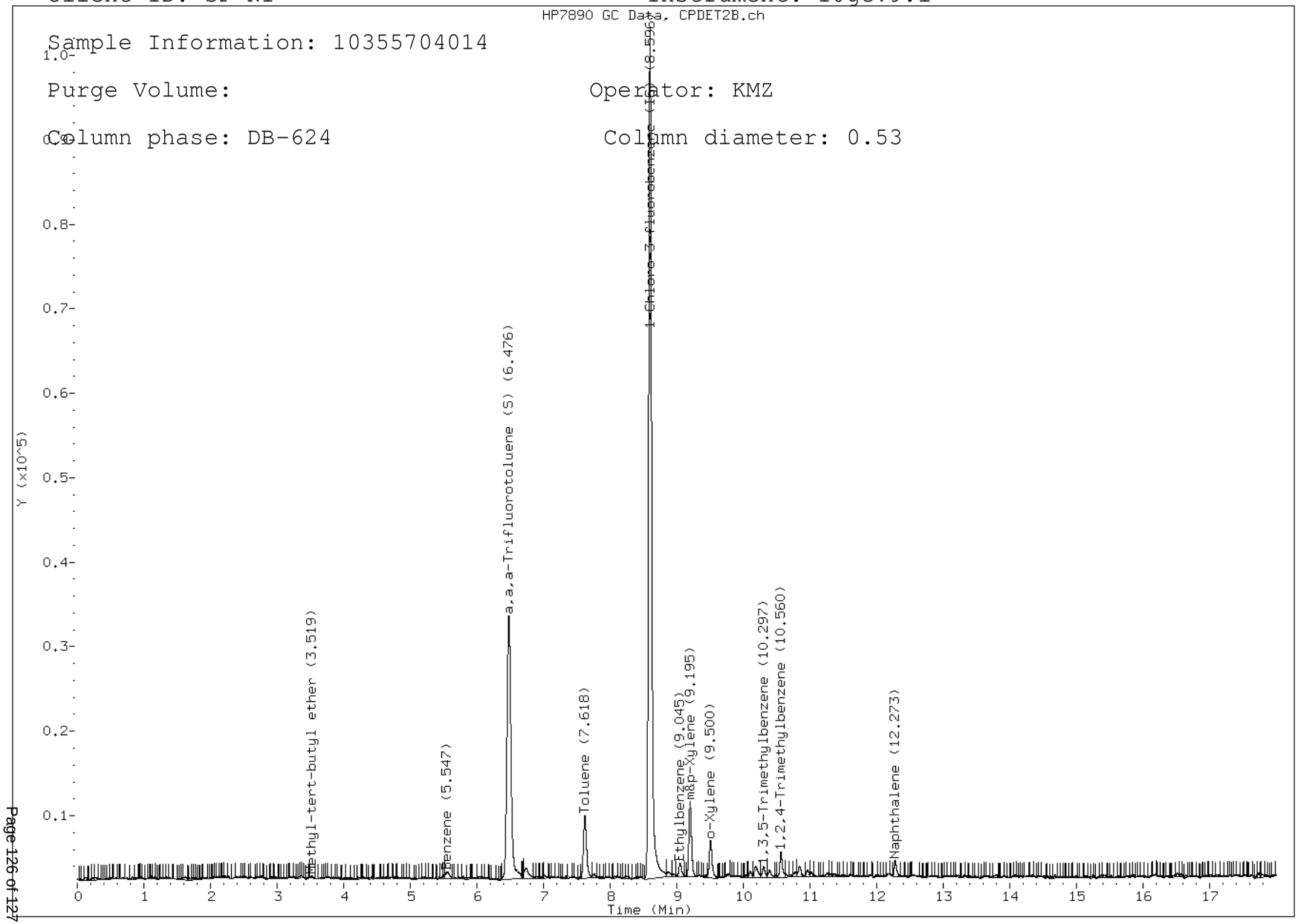
Sample ID: 10355704014

Client ID: SP-N1 Instrument: 10gcv9.i

Sample Information: 10355704014

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53



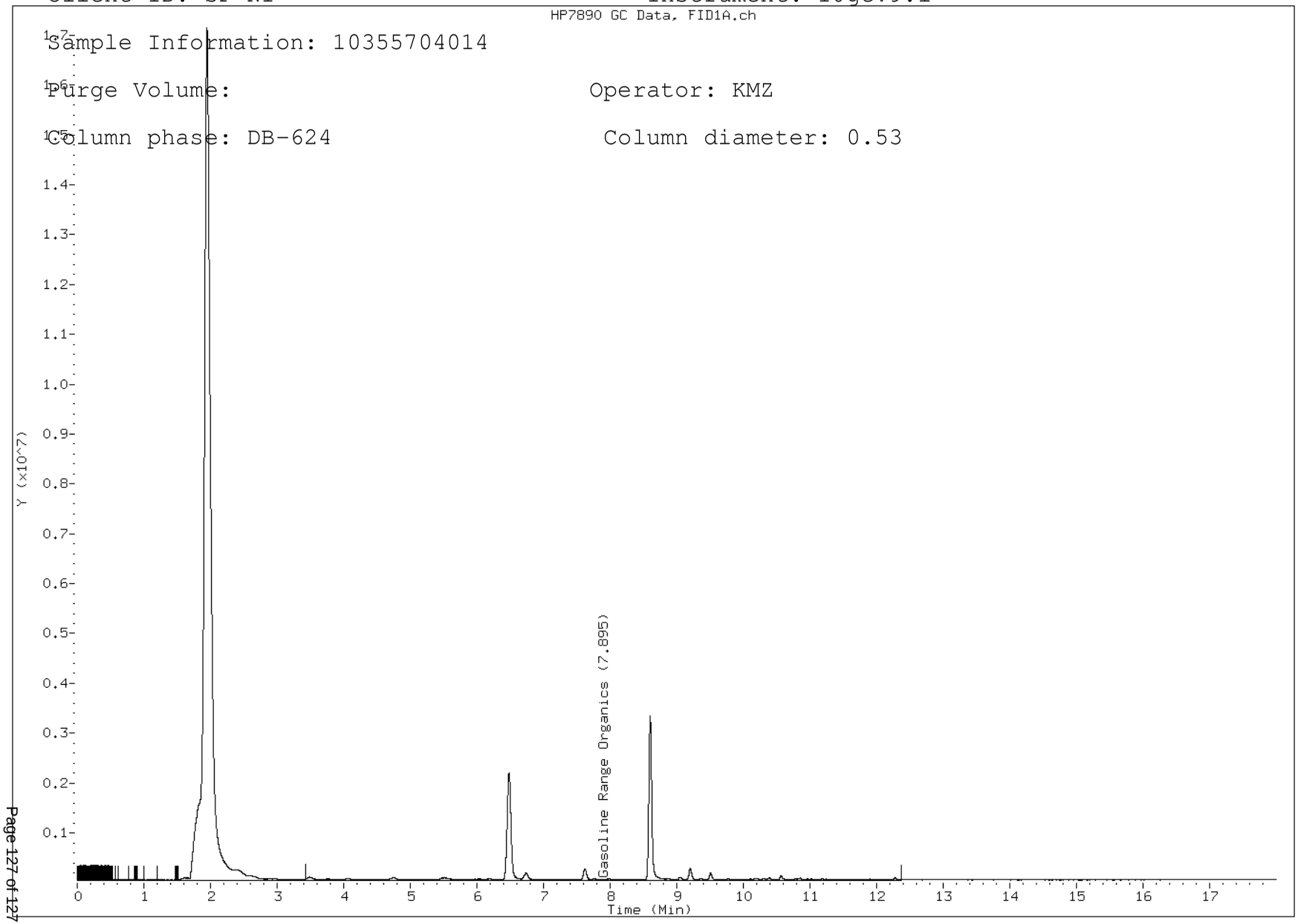
Data File: \\192.168.10.12\chem\10gcv9.i\071916-2.b/201014.d

Report Date: 07/20/2016

Sample ID: 10355704014

Client ID: SP-N1 Instrument: 10gcv9.i

Sample Information: 10355704014

Purge Volume: Operator: KMZ

Column phase: DB-624 Column diameter: 0.53