

February 27, 2023

James Beilman
Mull Drilling Company
1700 N Waterfront Pkwy
Bld. 1200
Wichita, KS 67206

RE: Project: BRAUKMAN FARM C
Pace Project No.: 60421769

Dear James Beilman:

Enclosed are the analytical results for sample(s) received by the laboratory on February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace National - Mt. Juliet
- Pace Analytical Services - Kansas City

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

Sincerely,



Heather Wilson
heather.wilson@pacelabs.com
1(913)563-1407
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Pace Analytical Services Kansas

9608 Loiret Boulevard, Lenexa, KS 66219
Missouri Inorganic Drinking Water Certification #: 10090
Arkansas Drinking Water
Arkansas Certification #: 22-031-0
Illinois Certification #: 2000302021-3
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055

Nevada Certification #: KS000212023-1
Oklahoma Certification #: 2022-057
Florida: Cert E871149 SEKS WET
Texas Certification #: T104704407-21-15
Utah Certification #: KS000212022-12
Illinois Certification #: 004592
Kansas Field Laboratory Accreditation: # E-92587
Missouri SEKS Micro Certification: 10070

Pace Analytical Services National

12065 Lebanon Road, Mt. Juliet, TN 37122
Alabama Certification #: 40660
Alaska Certification 17-026
Arizona Certification #: AZ0612
Arkansas Certification #: 88-0469
California Certification #: 2932
Canada Certification #: 1461.01
Colorado Certification #: TN00003
Connecticut Certification #: PH-0197
DOD Certification: #1461.01
EPA# TN00003
Florida Certification #: E87487
Georgia DW Certification #: 923
Georgia Certification: NELAP
Idaho Certification #: TN00003
Illinois Certification #: 200008
Indiana Certification #: C-TN-01
Iowa Certification #: 364
Kansas Certification #: E-10277
Kentucky UST Certification #: 16
Kentucky Certification #: 90010
Louisiana Certification #: AI30792
Louisiana DW Certification #: LA180010
Maine Certification #: TN0002
Maryland Certification #: 324
Massachusetts Certification #: M-TN003
Michigan Certification #: 9958
Minnesota Certification #: 047-999-395
Mississippi Certification #: TN00003
Missouri Certification #: 340
Montana Certification #: CERT0086
Nebraska Certification #: NE-OS-15-05

Nevada Certification #: TN-03-2002-34
New Hampshire Certification #: 2975
New Jersey Certification #: TN002
New Mexico DW Certification
New York Certification #: 11742
North Carolina Aquatic Toxicity Certification #: 41
North Carolina Drinking Water Certification #: 21704
North Carolina Environmental Certificate #: 375
North Dakota Certification #: R-140
Ohio VAP Certification #: CL0069
Oklahoma Certification #: 9915
Oregon Certification #: TN200002
Pennsylvania Certification #: 68-02979
Rhode Island Certification #: LAO00356
South Carolina Certification #: 84004
South Dakota Certification
Tennessee DW/Chem/Micro Certification #: 2006
Texas Certification #: T 104704245-17-14
Texas Mold Certification #: LAB0152
USDA Soil Permit #: P330-15-00234
Utah Certification #: TN00003
Virginia Certification #: VT2006
Vermont Dept. of Health: ID# VT-2006
Virginia Certification #: 460132
Washington Certification #: C847
West Virginia Certification #: 233
Wisconsin Certification #: 998093910
Wyoming UST Certification #: via A2LA 2926.01
A2LA-ISO 17025 Certification #: 1461.01
A2LA-ISO 17025 Certification #: 1461.02
AIHA-LAP/LLC EMLAP Certification #:100789

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60421769001	OLDSPILL 3' B6 #1	Solid	02/08/23 01:30	02/10/23 10:26
60421769002	OLDSPILL 8' B6 #1	Solid	02/08/23 01:40	02/10/23 10:26
60421769003	OLDSPILL 3' B6 #2	Solid	02/08/23 02:00	02/10/23 10:26
60421769004	OLDSPILL 8' B6 #2	Solid	02/08/23 02:15	02/10/23 10:26

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60421769001	OLDSPILL 3' B6 #1	EPA 8015B	YGR	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		6010B-NE493 Ch 2	ZSA	1	PAN
		EPA 6010	MA1	8	PASI-K
		EPA 6020	JGP	1	PASI-K
		EPA 8270 by SIM	SJJ	17	PASI-K
		EPA 8260C	RAD	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SM 2540G	CMK	1	PAN
		EPA 7199	VSS	1	PAN
		EPA 9045D	DB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	ZSA	1	PAN
		EPA 8015B	YGR	4	PASI-K
60421769002	OLDSPILL 8' B6 #1	EPA 8015B	JLO	2	PASI-K
		6010B-NE493 Ch 2	ZSA	1	PAN
		EPA 6010	MA1	8	PASI-K
		EPA 6020	JGP	1	PASI-K
		EPA 8270 by SIM	SJJ	17	PASI-K
		EPA 8260C	RAD	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SM 2540G	CMK	1	PAN
		EPA 7199	VSS	1	PAN
		EPA 9045D	DB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	ZSA	1	PAN
		EPA 8015B	YGR	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
60421769003	OLDSPILL 3' B6 #2	6010B-NE493 Ch 2	ZSA	1	PAN
		EPA 6010	MA1	8	PASI-K
		EPA 6020	JGP	1	PASI-K
		EPA 8270 by SIM	SJJ	17	PASI-K
		EPA 8260C	RAD	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SM 2540G	CMK	1	PAN
		EPA 7199	VSS	1	PAN
		EPA 9045D	DB	1	PAN

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SAMPLE ANALYTE COUNT

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60421769004	OLDSPILL 8' B6 #2	EPA 9050	NTG	1	PAN
		Calculated	ZSA	1	PAN
		EPA 8015B	YGR	4	PASI-K
		EPA 8015B	JLO	2	PASI-K
		6010B-NE493 Ch 2	ZSA	1	PAN
		EPA 6010	MA1	8	PASI-K
		EPA 6020	JGP	1	PASI-K
		EPA 8270 by SIM	SJJ	17	PASI-K
		EPA 8260C	RAD	9	PASI-K
		ASTM D2974	DWC	1	PASI-K
		SM 2540G	CMK	1	PAN
		EPA 7199	VSS	1	PAN
		EPA 9045D	DB	1	PAN
		EPA 9050	NTG	1	PAN
		Calculated	ZSA	1	PAN

PAN = Pace National - Mt. Juliet

PASI-K = Pace Analytical Services - Kansas City

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

Sample: OLDPILL 3' B6 #1 **Lab ID:** 60421769001 **Collected:** 02/08/23 01:30 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
TPH-RRO (C28-C36)	ND	mg/kg	22.7	5.1	1	02/13/23 18:32	02/14/23 13:54		
TPH-DRO (C10-C28)	ND	mg/kg	11.3	5.1	1	02/13/23 18:32	02/14/23 13:54		
Surrogates									
n-Tetracosane (S)	77	%	31-152		1	02/13/23 18:32	02/14/23 13:54	646-31-1	
p-Terphenyl (S)	74	%	46-130		1	02/13/23 18:32	02/14/23 13:54	92-94-4	
Gasoline Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
TPH-GRO	ND	mg/kg	12.6	1.5	1	02/22/23 12:25	02/22/23 14:50		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-130		1	02/22/23 12:25	02/22/23 14:50	460-00-4	
Metals (ICP) 6010B-NE493 Ch 2									
Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron									
Pace National - Mt. Juliet									
Boron, Hot Water Soluble	687	ug/L	200	16.7	1	02/15/23 11:51	02/20/23 13:20	7440-42-8H	
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Barium	280	mg/kg	0.45	0.25	1	02/13/23 08:15	02/22/23 13:20	7440-39-3	
Cadmium	0.24J	mg/kg	0.45	0.095	1	02/13/23 08:15	02/22/23 13:20	7440-43-9	
Copper	11.7	mg/kg	1.8	0.28	1	02/13/23 08:15	02/22/23 13:20	7440-50-8	
Lead	9.0	mg/kg	0.90	0.33	1	02/13/23 08:15	02/22/23 13:20	7439-92-1	
Nickel	11.5	mg/kg	0.45	0.21	1	02/13/23 08:15	02/22/23 13:20	7440-02-0	
Selenium	ND	mg/kg	1.4	0.68	1	02/13/23 08:15	02/22/23 13:20	7782-49-2	
Silver	ND	mg/kg	0.63	0.16	1	02/13/23 08:15	02/22/23 13:20	7440-22-4	
Zinc	38.4	mg/kg	9.0	1.2	1	02/13/23 08:15	02/22/23 13:20	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Arsenic	5.9	mg/kg	0.90	0.17	10	02/13/23 08:15	02/16/23 11:23	7440-38-2	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
Acenaphthene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 20:42	83-32-9	
Anthracene	ND	mg/kg	0.0037	0.0019	1	02/13/23 18:06	02/15/23 20:42	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0037	0.0021	1	02/13/23 18:06	02/15/23 20:42	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0037	0.0015	1	02/13/23 18:06	02/15/23 20:42	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 20:42	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0037	0.0021	1	02/13/23 18:06	02/15/23 20:42	207-08-9	
Chrysene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 20:42	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 20:42	53-70-3	
Fluoranthene	ND	mg/kg	0.0037	0.0026	1	02/13/23 18:06	02/15/23 20:42	206-44-0	
Fluorene	ND	mg/kg	0.0037	0.0024	1	02/13/23 18:06	02/15/23 20:42	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0037	0.0019	1	02/13/23 18:06	02/15/23 20:42	193-39-5	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Sample: OLDSPIII 3' B6 #1 **Lab ID:** 60421769001 **Collected:** 02/08/23 01:30 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
1-Methylnaphthalene	ND	mg/kg	0.0037	0.0018	1	02/13/23 18:06	02/15/23 20:42	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.0037	0.0023	1	02/13/23 18:06	02/15/23 20:42	91-57-6	
Naphthalene	ND	mg/kg	0.0037	0.0019	1	02/13/23 18:06	02/15/23 20:42	91-20-3	
Pyrene	ND	mg/kg	0.0037	0.0024	1	02/13/23 18:06	02/15/23 20:42	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	77	%	40-120		1	02/13/23 18:06	02/15/23 20:42	321-60-8	
Terphenyl-d14 (S)	79	%	45-130		1	02/13/23 18:06	02/15/23 20:42	1718-51-0	
8260C MSV 5035A Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
Benzene	ND	mg/kg	0.0063	0.00058	1	02/13/23 10:27	02/13/23 14:17	71-43-2	
Ethylbenzene	ND	mg/kg	0.0063	0.0011	1	02/13/23 10:27	02/13/23 14:17	100-41-4	
Toluene	ND	mg/kg	0.025	0.0056	1	02/13/23 10:27	02/13/23 14:17	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0063	0.00087	1	02/13/23 10:27	02/13/23 14:17	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0063	0.00055	1	02/13/23 10:27	02/13/23 14:17	108-67-8	
Xylene (Total)	ND	mg/kg	0.019	0.0047	1	02/13/23 10:27	02/13/23 14:17	1330-20-7	
Surrogates									
Toluene-d8 (S)	102	%	80-120		1	02/13/23 10:27	02/13/23 14:17	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119		1	02/13/23 10:27	02/13/23 14:17	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120		1	02/13/23 10:27	02/13/23 14:17	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Pace Analytical Services - Kansas City									
Percent Moisture	12.0	%	0.50	0.50	1		02/10/23 14:03		
Total Solids 2540 G-2011									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	87.7	%			1	02/15/23 17:05	02/15/23 17:30		
Wet Chemistry 7199									
Analytical Method: EPA 7199 Preparation Method: 3060A									
Pace National - Mt. Juliet									
Chromium, Hexavalent	ND	mg/kg	1.14	0.291	1	02/17/23 11:52	02/20/23 11:30	18540-29-9	
Wet Chemistry 9045D									
Analytical Method: EPA 9045D Preparation Method: 9045C/9045D									
Pace National - Mt. Juliet									
pH	7.43	Std. Units		0.10	1	02/15/23 10:33	02/15/23 15:16		H3
Wet Chemistry 9050AMod									
Analytical Method: EPA 9050 Preparation Method: 9050A									
Pace National - Mt. Juliet									
Specific Conductance @ 25 C	6320	umhos/cm	10.0	10.0	1	02/15/23 10:20	02/15/23 11:27		
Calculated Results									
Analytical Method: Calculated Preparation Method: Calc									
Pace National - Mt. Juliet									
Sodium Adsorption Ratio	5.92				1	02/19/23 19:55	02/19/23 19:55	SAR	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Sample: OLDPILL 8' B6 #1 **Lab ID:** 60421769002 **Collected:** 02/08/23 01:40 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
TPH-RRO (C28-C36)	ND	mg/kg	21.4	4.8	1	02/13/23 18:32	02/14/23 14:02		
TPH-DRO (C10-C28)	ND	mg/kg	10.7	4.8	1	02/13/23 18:32	02/14/23 14:02		
Surrogates									
n-Tetracosane (S)	81	%	31-152		1	02/13/23 18:32	02/14/23 14:02	646-31-1	
p-Terphenyl (S)	77	%	46-130		1	02/13/23 18:32	02/14/23 14:02	92-94-4	
Gasoline Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
TPH-GRO	ND	mg/kg	11.6	1.4	1	02/22/23 12:25	02/22/23 15:05		
Surrogates									
4-Bromofluorobenzene (S)	93	%	66-130		1	02/22/23 12:25	02/22/23 15:05	460-00-4	
Metals (ICP) 6010B-NE493 Ch 2									
Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron									
Pace National - Mt. Juliet									
Boron, Hot Water Soluble	1070	ug/L	200	16.7	1	02/15/23 11:51	02/20/23 13:23	7440-42-8H	
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Barium	160	mg/kg	0.44	0.24	1	02/13/23 08:15	02/22/23 13:22	7440-39-3	M1,R1
Cadmium	0.11J	mg/kg	0.44	0.092	1	02/13/23 08:15	02/22/23 13:22	7440-43-9	
Copper	9.9	mg/kg	1.7	0.27	1	02/13/23 08:15	02/22/23 13:22	7440-50-8	
Lead	9.5	mg/kg	0.87	0.31	1	02/13/23 08:15	02/22/23 13:22	7439-92-1	
Nickel	9.4	mg/kg	0.44	0.20	1	02/13/23 08:15	02/22/23 13:22	7440-02-0	
Selenium	ND	mg/kg	1.3	0.66	1	02/13/23 08:15	02/22/23 13:22	7782-49-2	M1
Silver	ND	mg/kg	0.61	0.15	1	02/13/23 08:15	02/22/23 13:22	7440-22-4	
Zinc	33.5	mg/kg	8.7	1.1	1	02/13/23 08:15	02/22/23 13:22	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Arsenic	6.1	mg/kg	0.87	0.16	10	02/13/23 08:15	02/16/23 11:35	7440-38-2	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
Acenaphthene	ND	mg/kg	0.0035	0.0019	1	02/13/23 18:06	02/15/23 21:37	83-32-9	
Anthracene	ND	mg/kg	0.0035	0.0018	1	02/13/23 18:06	02/15/23 21:37	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0035	0.0019	1	02/13/23 18:06	02/15/23 21:37	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0035	0.0014	1	02/13/23 18:06	02/15/23 21:37	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0035	0.0019	1	02/13/23 18:06	02/15/23 21:37	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0035	0.0020	1	02/13/23 18:06	02/15/23 21:37	207-08-9	
Chrysene	ND	mg/kg	0.0035	0.0019	1	02/13/23 18:06	02/15/23 21:37	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0035	0.0019	1	02/13/23 18:06	02/15/23 21:37	53-70-3	
Fluoranthene	ND	mg/kg	0.0035	0.0024	1	02/13/23 18:06	02/15/23 21:37	206-44-0	
Fluorene	ND	mg/kg	0.0035	0.0022	1	02/13/23 18:06	02/15/23 21:37	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0035	0.0018	1	02/13/23 18:06	02/15/23 21:37	193-39-5	

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Sample: OLDSPIRILL 8' B6 #1 **Lab ID:** 60421769002 **Collected:** 02/08/23 01:40 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
1-Methylnaphthalene	ND	mg/kg	0.0035	0.0017	1	02/13/23 18:06	02/15/23 21:37	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.0035	0.0021	1	02/13/23 18:06	02/15/23 21:37	91-57-6	
Naphthalene	ND	mg/kg	0.0035	0.0018	1	02/13/23 18:06	02/15/23 21:37	91-20-3	
Pyrene	ND	mg/kg	0.0035	0.0023	1	02/13/23 18:06	02/15/23 21:37	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	64	%	40-120		1	02/13/23 18:06	02/15/23 21:37	321-60-8	
Terphenyl-d14 (S)	65	%	45-130		1	02/13/23 18:06	02/15/23 21:37	1718-51-0	
8260C MSV 5035A Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
Benzene	ND	mg/kg	0.0058	0.00053	1	02/13/23 10:27	02/13/23 14:37	71-43-2	
Ethylbenzene	ND	mg/kg	0.0058	0.0010	1	02/13/23 10:27	02/13/23 14:37	100-41-4	
Toluene	ND	mg/kg	0.023	0.0052	1	02/13/23 10:27	02/13/23 14:37	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0058	0.00080	1	02/13/23 10:27	02/13/23 14:37	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0058	0.00050	1	02/13/23 10:27	02/13/23 14:37	108-67-8	
Xylene (Total)	ND	mg/kg	0.017	0.0043	1	02/13/23 10:27	02/13/23 14:37	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1	02/13/23 10:27	02/13/23 14:37	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119		1	02/13/23 10:27	02/13/23 14:37	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1	02/13/23 10:27	02/13/23 14:37	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Pace Analytical Services - Kansas City									
Percent Moisture	7.5	%	0.50	0.50	1		02/10/23 14:04		
Total Solids 2540 G-2011									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	93.3	%			1	02/15/23 17:05	02/15/23 17:30		
Wet Chemistry 7199									
Analytical Method: EPA 7199 Preparation Method: 3060A									
Pace National - Mt. Juliet									
Chromium, Hexavalent	ND	mg/kg	1.07	0.273	1	02/17/23 11:52	02/20/23 11:40	18540-29-9	
Wet Chemistry 9045D									
Analytical Method: EPA 9045D Preparation Method: 9045C/9045D									
Pace National - Mt. Juliet									
pH	7.62	Std. Units		0.10	1	02/15/23 10:33	02/15/23 15:16		H3
Wet Chemistry 9050AMod									
Analytical Method: EPA 9050 Preparation Method: 9050A									
Pace National - Mt. Juliet									
Specific Conductance @ 25 C	1160	umhos/cm	10.0	10.0	1	02/15/23 10:20	02/15/23 11:27		
Calculated Results									
Analytical Method: Calculated Preparation Method: Calc									
Pace National - Mt. Juliet									
Sodium Adsorption Ratio	2.54				1	02/19/23 19:58	02/19/23 19:58	SAR	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

Sample: OLDPILL 3' B6 #2 **Lab ID:** 60421769003 **Collected:** 02/08/23 02:00 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
TPH-RRO (C28-C36)	ND	mg/kg	23.0	5.1	1	02/13/23 18:32	02/14/23 14:10		
TPH-DRO (C10-C28)	ND	mg/kg	11.5	5.1	1	02/13/23 18:32	02/14/23 14:10		
Surrogates									
n-Tetracosane (S)	77	%	31-152		1	02/13/23 18:32	02/14/23 14:10	646-31-1	
p-Terphenyl (S)	72	%	46-130		1	02/13/23 18:32	02/14/23 14:10	92-94-4	
Gasoline Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
TPH-GRO	1.9J	mg/kg	12.7	1.6	1	02/22/23 12:25	02/22/23 15:50		
Surrogates									
4-Bromofluorobenzene (S)	92	%	66-130		1	02/22/23 12:25	02/22/23 15:50	460-00-4	
Metals (ICP) 6010B-NE493 Ch 2									
Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron									
Pace National - Mt. Juliet									
Boron, Hot Water Soluble	6080	ug/L	200	16.7	1	02/15/23 11:51	02/20/23 13:26	7440-42-8H	
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Barium	194	mg/kg	0.47	0.26	1	02/13/23 08:15	02/22/23 13:28	7440-39-3	
Cadmium	0.17J	mg/kg	0.47	0.099	1	02/13/23 08:15	02/22/23 13:28	7440-43-9	
Copper	14.5	mg/kg	1.9	0.29	1	02/13/23 08:15	02/22/23 13:28	7440-50-8	
Lead	11.2	mg/kg	0.94	0.34	1	02/13/23 08:15	02/22/23 13:28	7439-92-1	
Nickel	12.8	mg/kg	0.47	0.22	1	02/13/23 08:15	02/22/23 13:28	7440-02-0	
Selenium	ND	mg/kg	1.4	0.71	1	02/13/23 08:15	02/22/23 13:28	7782-49-2	
Silver	ND	mg/kg	0.66	0.16	1	02/13/23 08:15	02/22/23 13:28	7440-22-4	
Zinc	48.3	mg/kg	9.4	1.2	1	02/13/23 08:15	02/22/23 13:28	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Arsenic	7.2	mg/kg	0.94	0.17	10	02/13/23 08:15	02/16/23 11:38	7440-38-2	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
Acenaphthene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 21:55	83-32-9	
Anthracene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 21:55	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0037	0.0021	1	02/13/23 18:06	02/15/23 21:55	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0037	0.0016	1	02/13/23 18:06	02/15/23 21:55	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0037	0.0021	1	02/13/23 18:06	02/15/23 21:55	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0037	0.0021	1	02/13/23 18:06	02/15/23 21:55	207-08-9	
Chrysene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 21:55	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 21:55	53-70-3	
Fluoranthene	ND	mg/kg	0.0037	0.0026	1	02/13/23 18:06	02/15/23 21:55	206-44-0	
Fluorene	ND	mg/kg	0.0037	0.0024	1	02/13/23 18:06	02/15/23 21:55	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0037	0.0020	1	02/13/23 18:06	02/15/23 21:55	193-39-5	

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

Sample: OLDSPIII 3' B6 #2 **Lab ID:** 60421769003 **Collected:** 02/08/23 02:00 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
1-Methylnaphthalene	ND	mg/kg	0.0037	0.0018	1	02/13/23 18:06	02/15/23 21:55	90-12-0	
2-Methylnaphthalene	ND	mg/kg	0.0037	0.0023	1	02/13/23 18:06	02/15/23 21:55	91-57-6	
Naphthalene	ND	mg/kg	0.0037	0.0019	1	02/13/23 18:06	02/15/23 21:55	91-20-3	
Pyrene	ND	mg/kg	0.0037	0.0025	1	02/13/23 18:06	02/15/23 21:55	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	73	%	40-120		1	02/13/23 18:06	02/15/23 21:55	321-60-8	
Terphenyl-d14 (S)	72	%	45-130		1	02/13/23 18:06	02/15/23 21:55	1718-51-0	
8260C MSV 5035A Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
Benzene	ND	mg/kg	0.0064	0.00059	1	02/13/23 10:27	02/13/23 14:57	71-43-2	
Ethylbenzene	ND	mg/kg	0.0064	0.0011	1	02/13/23 10:27	02/13/23 14:57	100-41-4	
Toluene	ND	mg/kg	0.026	0.0057	1	02/13/23 10:27	02/13/23 14:57	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0064	0.00089	1	02/13/23 10:27	02/13/23 14:57	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0064	0.00056	1	02/13/23 10:27	02/13/23 14:57	108-67-8	
Xylene (Total)	ND	mg/kg	0.019	0.0047	1	02/13/23 10:27	02/13/23 14:57	1330-20-7	
Surrogates									
Toluene-d8 (S)	103	%	80-120		1	02/13/23 10:27	02/13/23 14:57	2037-26-5	
4-Bromofluorobenzene (S)	102	%	83-119		1	02/13/23 10:27	02/13/23 14:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	102	%	80-120		1	02/13/23 10:27	02/13/23 14:57	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Pace Analytical Services - Kansas City									
Percent Moisture	12.9	%	0.50	0.50	1		02/10/23 14:04		
Total Solids 2540 G-2011									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	88.3	%			1	02/15/23 17:05	02/15/23 17:30		
Wet Chemistry 7199									
Analytical Method: EPA 7199 Preparation Method: 3060A									
Pace National - Mt. Juliet									
Chromium, Hexavalent	ND	mg/kg	1.13	0.289	1	02/17/23 11:52	02/20/23 11:45	18540-29-9	
Wet Chemistry 9045D									
Analytical Method: EPA 9045D Preparation Method: 9045C/9045D									
Pace National - Mt. Juliet									
pH	7.42	Std. Units		0.10	1	02/15/23 10:33	02/15/23 15:16		H3
Wet Chemistry 9050AMod									
Analytical Method: EPA 9050 Preparation Method: 9050A									
Pace National - Mt. Juliet									
Specific Conductance @ 25 C	9150	umhos/cm	10.0	10.0	1	02/15/23 10:20	02/15/23 11:27		
Calculated Results									
Analytical Method: Calculated Preparation Method: Calc									
Pace National - Mt. Juliet									
Sodium Adsorption Ratio	4.15				1	02/19/23 20:27	02/19/23 20:27	SAR	

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Sample: OLDPILL 8' B6 #2 **Lab ID:** 60421769004 **Collected:** 02/08/23 02:15 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8015B Diesel Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
TPH-RRO (C28-C36)	ND	mg/kg	20.6	4.6	1	02/13/23 18:32	02/14/23 14:19		
TPH-DRO (C10-C28)	ND	mg/kg	10.3	4.6	1	02/13/23 18:32	02/14/23 14:19		
Surrogates									
n-Tetracosane (S)	84	%	31-152		1	02/13/23 18:32	02/14/23 14:19	646-31-1	
p-Terphenyl (S)	80	%	46-130		1	02/13/23 18:32	02/14/23 14:19	92-94-4	
Gasoline Range Organics									
Analytical Method: EPA 8015B Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
TPH-GRO	ND	mg/kg	10.3	1.3	1	02/22/23 12:25	02/22/23 16:05		
Surrogates									
4-Bromofluorobenzene (S)	94	%	66-130		1	02/22/23 12:25	02/22/23 16:05	460-00-4	
Metals (ICP) 6010B-NE493 Ch 2									
Analytical Method: 6010B-NE493 Ch 2 Preparation Method: HWS Boron									
Pace National - Mt. Juliet									
Boron, Hot Water Soluble	968	ug/L	200	16.7	1	02/15/23 11:51	02/20/23 13:34	7440-42-8H	
6010 MET ICP Red. Interference									
Analytical Method: EPA 6010 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Barium	69.6	mg/kg	0.44	0.24	1	02/13/23 08:15	02/22/23 13:30	7440-39-3	
Cadmium	ND	mg/kg	0.44	0.092	1	02/13/23 08:15	02/22/23 13:30	7440-43-9	
Copper	4.7	mg/kg	1.8	0.27	1	02/13/23 08:15	02/22/23 13:30	7440-50-8	
Lead	4.6	mg/kg	0.88	0.32	1	02/13/23 08:15	02/22/23 13:30	7439-92-1	
Nickel	4.1	mg/kg	0.44	0.21	1	02/13/23 08:15	02/22/23 13:30	7440-02-0	
Selenium	ND	mg/kg	1.3	0.66	1	02/13/23 08:15	02/22/23 13:30	7782-49-2	
Silver	ND	mg/kg	0.61	0.15	1	02/13/23 08:15	02/22/23 13:30	7440-22-4	
Zinc	17.0	mg/kg	8.8	1.1	1	02/13/23 08:15	02/22/23 13:30	7440-66-6	
6020 MET ICPMS									
Analytical Method: EPA 6020 Preparation Method: EPA 3050									
Pace Analytical Services - Kansas City									
Arsenic	3.6	mg/kg	0.88	0.16	10	02/13/23 08:15	02/16/23 11:41	7440-38-2	
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
Acenaphthene	ND	mg/kg	0.0033	0.0018	1	02/13/23 18:06	02/15/23 22:13	83-32-9	
Anthracene	ND	mg/kg	0.0033	0.0017	1	02/13/23 18:06	02/15/23 22:13	120-12-7	
Benzo(a)anthracene	ND	mg/kg	0.0033	0.0018	1	02/13/23 18:06	02/15/23 22:13	56-55-3	
Benzo(a)pyrene	ND	mg/kg	0.0033	0.0014	1	02/13/23 18:06	02/15/23 22:13	50-32-8	
Benzo(b)fluoranthene	ND	mg/kg	0.0033	0.0018	1	02/13/23 18:06	02/15/23 22:13	205-99-2	
Benzo(k)fluoranthene	ND	mg/kg	0.0033	0.0019	1	02/13/23 18:06	02/15/23 22:13	207-08-9	
Chrysene	ND	mg/kg	0.0033	0.0018	1	02/13/23 18:06	02/15/23 22:13	218-01-9	
Dibenz(a,h)anthracene	ND	mg/kg	0.0033	0.0018	1	02/13/23 18:06	02/15/23 22:13	53-70-3	
Fluoranthene	ND	mg/kg	0.0033	0.0023	1	02/13/23 18:06	02/15/23 22:13	206-44-0	
Fluorene	ND	mg/kg	0.0033	0.0021	1	02/13/23 18:06	02/15/23 22:13	86-73-7	
Indeno(1,2,3-cd)pyrene	ND	mg/kg	0.0033	0.0017	1	02/13/23 18:06	02/15/23 22:13	193-39-5	

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ANALYTICAL RESULTS

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

Sample: OLDPILL 8' B6 #2 **Lab ID:** 60421769004 **Collected:** 02/08/23 02:15 **Received:** 02/10/23 10:26 **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	MDL	DF	Prepared	Analyzed	CAS No.	Qual
8270 MSSV PAH by SIM									
Analytical Method: EPA 8270 by SIM Preparation Method: EPA 3546									
Pace Analytical Services - Kansas City									
1-Methylnaphthalene	ND	mg/kg	0.0033	0.0016	1	02/13/23 18:06	02/15/23 22:13	90-12-0	
2-Methylnaphthalene	0.0021J	mg/kg	0.0033	0.0020	1	02/13/23 18:06	02/15/23 22:13	91-57-6	
Naphthalene	ND	mg/kg	0.0033	0.0017	1	02/13/23 18:06	02/15/23 22:13	91-20-3	
Pyrene	ND	mg/kg	0.0033	0.0022	1	02/13/23 18:06	02/15/23 22:13	129-00-0	
Surrogates									
2-Fluorobiphenyl (S)	72	%	40-120		1	02/13/23 18:06	02/15/23 22:13	321-60-8	
Terphenyl-d14 (S)	77	%	45-130		1	02/13/23 18:06	02/15/23 22:13	1718-51-0	
8260C MSV 5035A Low Level									
Analytical Method: EPA 8260C Preparation Method: EPA 5035A/5030B									
Pace Analytical Services - Kansas City									
Benzene	ND	mg/kg	0.0053	0.00049	1	02/13/23 10:27	02/13/23 15:18	71-43-2	
Ethylbenzene	ND	mg/kg	0.0053	0.00092	1	02/13/23 10:27	02/13/23 15:18	100-41-4	
Toluene	ND	mg/kg	0.021	0.0047	1	02/13/23 10:27	02/13/23 15:18	108-88-3	
1,2,4-Trimethylbenzene	ND	mg/kg	0.0053	0.00073	1	02/13/23 10:27	02/13/23 15:18	95-63-6	
1,3,5-Trimethylbenzene	ND	mg/kg	0.0053	0.00046	1	02/13/23 10:27	02/13/23 15:18	108-67-8	
Xylene (Total)	ND	mg/kg	0.016	0.0039	1	02/13/23 10:27	02/13/23 15:18	1330-20-7	
Surrogates									
Toluene-d8 (S)	106	%	80-120		1	02/13/23 10:27	02/13/23 15:18	2037-26-5	
4-Bromofluorobenzene (S)	101	%	83-119		1	02/13/23 10:27	02/13/23 15:18	460-00-4	
1,2-Dichlorobenzene-d4 (S)	100	%	80-120		1	02/13/23 10:27	02/13/23 15:18	2199-69-1	
Percent Moisture									
Analytical Method: ASTM D2974									
Pace Analytical Services - Kansas City									
Percent Moisture	3.4	%	0.50	0.50	1		02/10/23 14:04		
Total Solids 2540 G-2011									
Analytical Method: SM 2540G Preparation Method: SM 2540 G									
Pace National - Mt. Juliet									
Total Solids	97.2	%			1	02/15/23 17:05	02/15/23 17:30		
Wet Chemistry 7199									
Analytical Method: EPA 7199 Preparation Method: 3060A									
Pace National - Mt. Juliet									
Chromium, Hexavalent	ND	mg/kg	1.03	0.262	1	02/17/23 11:52	02/20/23 11:51	18540-29-9	
Wet Chemistry 9045D									
Analytical Method: EPA 9045D Preparation Method: 9045C/9045D									
Pace National - Mt. Juliet									
pH	7.65	Std. Units		0.10	1	02/15/23 10:33	02/15/23 15:16		H3
Wet Chemistry 9050AMod									
Analytical Method: EPA 9050 Preparation Method: 9050A									
Pace National - Mt. Juliet									
Specific Conductance @ 25 C	962	umhos/cm	10.0	10.0	1	02/15/23 10:20	02/15/23 11:27		
Calculated Results									
Analytical Method: Calculated Preparation Method: Calc									
Pace National - Mt. Juliet									
Sodium Adsorption Ratio	1.05				1	02/19/23 20:00	02/19/23 20:00	SAR	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch: 832917 Analysis Method: EPA 8015B
QC Batch Method: EPA 5035A/5030B Analysis Description: Gasoline Range Organics
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3305055 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH-GRO	mg/kg	1.4J	10.0	1.2	02/22/23 14:35	
4-Bromofluorobenzene (S)	%	97	66-130		02/22/23 14:35	

LABORATORY CONTROL SAMPLE: 3305056

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-GRO	mg/kg	50	58.2	116	70-130	
4-Bromofluorobenzene (S)	%			97	66-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3305057 3305058

Parameter	Units	60421769002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-GRO	mg/kg	ND	57.7	57.9	64.6	65.1	110	110	70-130	1	25	
4-Bromofluorobenzene (S)	%						97	97	66-130			

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

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch: 2006452

Analysis Method: 6010B-NE493 Ch 2

QC Batch Method: HWS Boron

Analysis Description: Metals (ICP) 6010B-NE493 Ch 2

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: R3892852-1

Matrix: Solid

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Boron, Hot Water Soluble	ug/L	ND	200	16.7	02/20/23 13:12	

LABORATORY CONTROL SAMPLE & LCSD: R3892852-2

R3892852-3

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Boron, Hot Water Soluble	ug/L	1000	1060	1060	106	106	80.0-120	0.269	20	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch: 831595 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300551 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Barium	mg/kg	ND	0.50	0.28	02/22/23 13:15	
Cadmium	mg/kg	ND	0.50	0.10	02/22/23 13:15	
Copper	mg/kg	ND	2.0	0.31	02/22/23 13:15	
Lead	mg/kg	ND	1.0	0.36	02/22/23 13:15	
Nickel	mg/kg	ND	0.50	0.24	02/22/23 13:15	
Selenium	mg/kg	ND	1.5	0.75	02/22/23 13:15	
Silver	mg/kg	ND	0.70	0.17	02/22/23 13:15	
Zinc	mg/kg	ND	10.0	1.3	02/22/23 13:15	

LABORATORY CONTROL SAMPLE: 3300552

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Barium	mg/kg	100	93.4	93	80-120	
Cadmium	mg/kg	100	91.6	92	80-120	
Copper	mg/kg	100	93.6	94	80-120	
Lead	mg/kg	100	91.8	92	80-120	
Nickel	mg/kg	100	94.7	95	80-120	
Selenium	mg/kg	100	82.8	83	80-120	
Silver	mg/kg	50	44.5	89	80-120	
Zinc	mg/kg	100	91.0	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300553 3300554

Parameter	Units	60421769002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/kg	160	85.9	85.9	641	356	560	228	75-125	57	20	M1, R1
Cadmium	mg/kg	0.11J	85.9	85.9	67.0	66.1	78	77	75-125	1	20	
Copper	mg/kg	9.9	85.9	85.9	83.6	84.2	86	87	75-125	1	20	
Lead	mg/kg	9.5	85.9	85.9	76.5	75.7	78	77	75-125	1	20	
Nickel	mg/kg	9.4	85.9	85.9	78.5	76.9	80	79	75-125	2	20	
Selenium	mg/kg	ND	85.9	85.9	57.9	57.0	67	66	75-125	1	20	M1
Silver	mg/kg	ND	42.9	42.9	34.8	34.4	81	80	75-125	1	20	
Zinc	mg/kg	33.5	85.9	85.9	100	101	78	79	75-125	1	20	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch: 831594

Analysis Method: EPA 6020

QC Batch Method: EPA 3050

Analysis Description: 6020 MET

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300547

Matrix: Solid

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/kg	ND	1.0	0.18	02/16/23 11:19	

LABORATORY CONTROL SAMPLE: 3300548

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	100	91.2	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300549 3300550

Parameter	Units	60421769001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/kg	5.9	88.7	91.6	85.9	88.1	90	90	75-125	2	20	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch: 831688 Analysis Method: EPA 8260C
QC Batch Method: EPA 5035A/5030B Analysis Description: 8260C MSV 5035A Low Level
Laboratory: Pace Analytical Services - Kansas City
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300914 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	ND	0.0050	0.00069	02/13/23 10:00	
1,3,5-Trimethylbenzene	mg/kg	ND	0.0050	0.00043	02/13/23 10:00	
Benzene	mg/kg	ND	0.0050	0.00046	02/13/23 10:00	
Ethylbenzene	mg/kg	ND	0.0050	0.00087	02/13/23 10:00	
Toluene	mg/kg	ND	0.020	0.0044	02/13/23 10:00	
Xylene (Total)	mg/kg	ND	0.015	0.0037	02/13/23 10:00	
1,2-Dichlorobenzene-d4 (S)	%	102	80-120		02/13/23 10:00	
4-Bromofluorobenzene (S)	%	103	83-119		02/13/23 10:00	
Toluene-d8 (S)	%	105	80-120		02/13/23 10:00	

LABORATORY CONTROL SAMPLE: 3300915

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2,4-Trimethylbenzene	mg/kg	1.2	1.3	108	79-121	
1,3,5-Trimethylbenzene	mg/kg	1.2	1.3	107	81-122	
Benzene	mg/kg	1.2	1.3	100	67-126	
Ethylbenzene	mg/kg	1.2	1.3	101	69-127	
Toluene	mg/kg	1.2	1.2	97	80-118	
Xylene (Total)	mg/kg	3.8	4.0	106	69-130	
1,2-Dichlorobenzene-d4 (S)	%			101	80-120	
4-Bromofluorobenzene (S)	%			100	83-119	
Toluene-d8 (S)	%			98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300916 3300917

Parameter	Units	60421769004		MSD		MS		MSD		MS		MSD		% Rec		Limits		RPD		Max RPD		Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec	MS % Rec	MSD % Rec
1,2,4-Trimethylbenzene	mg/kg	ND	1.3	1.3	1.3	1.3	97	100	10-124	3	68											
1,3,5-Trimethylbenzene	mg/kg	ND	1.3	1.3	1.2	1.3	92	99	10-125	7	65											
Benzene	mg/kg	ND	1.3	1.3	1.2	1.2	88	92	17-134	4	53											
Ethylbenzene	mg/kg	ND	1.3	1.3	1.1	1.2	85	92	10-137	8	60											
Toluene	mg/kg	ND	1.3	1.3	1.1	1.2	82	88	13-131	7	60											
Xylene (Total)	mg/kg	ND	4	4	3.7	3.9	93	97	10-137	5	58											
1,2-Dichlorobenzene-d4 (S)	%						100	100	80-120													
4-Bromofluorobenzene (S)	%						100	101	83-119													
Toluene-d8 (S)	%						99	100	80-120													

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch:	831694	Analysis Method:	EPA 8015B
QC Batch Method:	EPA 3546	Analysis Description:	EPA 8015B
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300946 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
TPH-DRO (C10-C28)	mg/kg	ND	9.9	4.4	02/14/23 13:22	
TPH-RRO (C28-C36)	mg/kg	ND	19.8	4.4	02/14/23 13:22	
n-Tetracosane (S)	%	90	31-152		02/14/23 13:22	
p-Terphenyl (S)	%	87	46-130		02/14/23 13:22	

LABORATORY CONTROL SAMPLE: 3300947

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
TPH-DRO (C10-C28)	mg/kg	82.9	68.8	83	74-124	
n-Tetracosane (S)	%			93	31-152	
p-Terphenyl (S)	%			89	46-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300948 3300949

Parameter	Units	60421769002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
TPH-DRO (C10-C28)	mg/kg	ND	90.1	87.4	73.4	68.6	79	76	30-130	7	35	
n-Tetracosane (S)	%						91	84	31-152			
p-Terphenyl (S)	%						88	82	46-130			

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch: 831693

Analysis Method: EPA 8270 by SIM

QC Batch Method: EPA 3546

Analysis Description: 8270/3546 MSSV PAH by SIM

Laboratory: Pace Analytical Services - Kansas City

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300942

Matrix: Solid

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
1-Methylnaphthalene	mg/kg	ND	0.0032	0.0015	02/15/23 20:06	
2-Methylnaphthalene	mg/kg	ND	0.0032	0.0020	02/15/23 20:06	
Acenaphthene	mg/kg	ND	0.0032	0.0018	02/15/23 20:06	
Anthracene	mg/kg	ND	0.0032	0.0017	02/15/23 20:06	
Benzo(a)anthracene	mg/kg	ND	0.0032	0.0018	02/15/23 20:06	
Benzo(a)pyrene	mg/kg	ND	0.0032	0.0013	02/15/23 20:06	
Benzo(b)fluoranthene	mg/kg	ND	0.0032	0.0018	02/15/23 20:06	
Benzo(k)fluoranthene	mg/kg	ND	0.0032	0.0018	02/15/23 20:06	
Chrysene	mg/kg	ND	0.0032	0.0017	02/15/23 20:06	
Dibenz(a,h)anthracene	mg/kg	ND	0.0032	0.0017	02/15/23 20:06	
Fluoranthene	mg/kg	ND	0.0032	0.0022	02/15/23 20:06	
Fluorene	mg/kg	ND	0.0032	0.0021	02/15/23 20:06	
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.0032	0.0017	02/15/23 20:06	
Naphthalene	mg/kg	ND	0.0032	0.0017	02/15/23 20:06	
Pyrene	mg/kg	ND	0.0032	0.0021	02/15/23 20:06	
2-Fluorobiphenyl (S)	%	76	40-120		02/15/23 20:06	
Terphenyl-d14 (S)	%	79	45-130		02/15/23 20:06	

LABORATORY CONTROL SAMPLE: 3300943

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1-Methylnaphthalene	mg/kg	0.033	0.026	80	55-120	
2-Methylnaphthalene	mg/kg	0.033	0.027	80	55-120	
Acenaphthene	mg/kg	0.033	0.026	78	45-120	
Anthracene	mg/kg	0.033	0.028	84	50-120	
Benzo(a)anthracene	mg/kg	0.033	0.028	84	55-125	
Benzo(a)pyrene	mg/kg	0.033	0.026	79	45-120	
Benzo(b)fluoranthene	mg/kg	0.033	0.028	85	50-125	
Benzo(k)fluoranthene	mg/kg	0.033	0.026	78	55-120	
Chrysene	mg/kg	0.033	0.026	78	55-120	
Dibenz(a,h)anthracene	mg/kg	0.033	0.022	65	40-125	
Fluoranthene	mg/kg	0.033	0.030	89	50-125	
Fluorene	mg/kg	0.033	0.027	80	50-120	
Indeno(1,2,3-cd)pyrene	mg/kg	0.033	0.021	63	44-125	
Naphthalene	mg/kg	0.033	0.024	73	45-120	
Pyrene	mg/kg	0.033	0.026	79	50-125	
2-Fluorobiphenyl (S)	%			86	40-120	
Terphenyl-d14 (S)	%			85	45-130	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3300944 3300945												
Parameter	Units	60421769001		MS	MSD	MS		MS	MSD	% Rec	Max	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD	
1-Methylnaphthalene	mg/kg	ND	0.036	0.036	0.036	0.023	0.022	64	62	50-145	3	61
2-Methylnaphthalene	mg/kg	ND	0.036	0.036	0.036	0.023	0.023	64	64	50-120	1	61
Acenaphthene	mg/kg	ND	0.036	0.036	0.036	0.022	0.022	60	62	10-150	3	42
Anthracene	mg/kg	ND	0.036	0.036	0.036	0.023	0.023	65	64	10-160	1	54
Benzo(a)anthracene	mg/kg	ND	0.036	0.036	0.036	0.023	0.024	65	66	10-160	2	62
Benzo(a)pyrene	mg/kg	ND	0.036	0.036	0.036	0.021	0.022	60	60	10-150	1	66
Benzo(b)fluoranthene	mg/kg	ND	0.036	0.036	0.036	0.024	0.024	66	66	10-165	1	61
Benzo(k)fluoranthene	mg/kg	ND	0.036	0.036	0.036	0.021	0.022	60	60	10-165	1	53
Chrysene	mg/kg	ND	0.036	0.036	0.036	0.021	0.021	58	58	10-150	0	57
Dibenz(a,h)anthracene	mg/kg	ND	0.036	0.036	0.036	0.018	0.018	49	49	10-175	0	48
Fluoranthene	mg/kg	ND	0.036	0.036	0.036	0.026	0.026	71	71	10-180	0	54
Fluorene	mg/kg	ND	0.036	0.036	0.036	0.023	0.024	64	67	20-145	6	39
Indeno(1,2,3-cd)pyrene	mg/kg	ND	0.036	0.036	0.036	0.017	0.017	47	47	10-150	0	59
Naphthalene	mg/kg	ND	0.036	0.036	0.036	0.020	0.020	55	56	10-165	3	54
Pyrene	mg/kg	ND	0.036	0.036	0.036	0.018	0.021	50	59	10-180	17	61
2-Fluorobiphenyl (S)	%							68	64	40-120		
Terphenyl-d14 (S)	%							70	64	45-130		

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch:	831480	Analysis Method:	ASTM D2974
QC Batch Method:	ASTM D2974	Analysis Description:	Dry Weight/Percent Moisture
		Laboratory:	Pace Analytical Services - Kansas City

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: 3300111 Matrix: Solid

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	0.50	02/10/23 14:03	

SAMPLE DUPLICATE: 3300112

Parameter	Units	60421713001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	19.2	18.9	1	20	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch:	2006205	Analysis Method:	SM 2540G
QC Batch Method:	SM 2540 G	Analysis Description:	Total Solids 2540 G-2011
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: R3891508-1 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Solids	%	0.00100			02/15/23 17:30	

LABORATORY CONTROL SAMPLE: R3891508-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Solids	%	50.0	50.0	99.9	85.0-115	

SAMPLE DUPLICATE: R3891508-3

Parameter	Units	L1585398-06 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Solids	%	86.4	86.1	0.430	10	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch: 2006236 Analysis Method: EPA 7199
QC Batch Method: 3060A Analysis Description: Wet Chemistry 7199
Laboratory: Pace National - Mt. Juliet
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: R3892877-1 Matrix: Solid
Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	1.00	0.255	02/20/23 11:12	

LABORATORY CONTROL SAMPLE: R3892877-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	10.0	10.2	102	80.0-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: R3892877-4 R3892877-5

Parameter	Units	L1585563-04 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium, Hexavalent	mg/kg	ND	20.0	20.0	15.1	16.6	75.5	82.9	75.0-125	9.37	20	

MATRIX SPIKE SAMPLE: R3892877-6

Parameter	Units	L1585563-04 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	ND	654	466	71.2	75.0-125	ML

SAMPLE DUPLICATE: R3892877-3

Parameter	Units	60421769001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	20	

SAMPLE DUPLICATE: R3892877-8

Parameter	Units	L1585563-05 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium, Hexavalent	mg/kg	ND	ND	0.00	20	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch:	2006411	Analysis Method:	EPA 9045D
QC Batch Method:	9045C/9045D	Analysis Description:	Wet Chemistry 9045D
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

LABORATORY CONTROL SAMPLE: R3891232-1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
pH	Std. Units	10.0	9.96	99.6	99.0-101	

SAMPLE DUPLICATE: R3891232-3

Parameter	Units	L1585425-06 Result	Dup Result	RPD	Max RPD	Qualifiers
pH	Std. Units	7.09	7.10	0.141	1	

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

QC Batch: 2006261

Analysis Method: EPA 9050

QC Batch Method: 9050A

Analysis Description: Wet Chemistry 9050AMod

Laboratory: Pace National - Mt. Juliet

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: R3891082-1

Matrix: Solid

Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Specific Conductance @ 25 C	umhos/cm	ND	10.0	10.0	02/15/23 11:27	

LABORATORY CONTROL SAMPLE: R3891082-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25 C	umhos/cm	1120	1070	95.1	85.0-115	

SAMPLE DUPLICATE: R3891082-3

Parameter	Units	L1585280-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25 C	umhos/cm	360	359	0.278	20	

SAMPLE DUPLICATE: R3891082-4

Parameter	Units	60421769002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25 C	umhos/cm	1160	1170	0.774	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: BRAUKMAN FARM C
Pace Project No.: 60421769

QC Batch:	2006261	Analysis Method:	EPA 9050
QC Batch Method:	EPA 9050	Analysis Description:	Wet Chemistry 9050AMod
		Laboratory:	Pace National - Mt. Juliet

Associated Lab Samples: 60421769001, 60421769002, 60421769003, 60421769004

METHOD BLANK: R3891082-1 Matrix: Solid
Associated Lab Samples:

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Specific Conductance @ 25 C	umhos/cm	ND	10.0	10.0	02/15/23 11:27	

LABORATORY CONTROL SAMPLE: R3891082-2

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Specific Conductance @ 25 C	umhos/cm	1120	1070	95.1	85.0-115	

SAMPLE DUPLICATE: R3891082-3

Parameter	Units	L1585280-03 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25 C	umhos/cm	360	359	0.278	20	

SAMPLE DUPLICATE: R3891082-4

Parameter	Units	60421769002 Result	Dup Result	RPD	Max RPD	Qualifiers
Specific Conductance @ 25 C	umhos/cm	1160	1170	0.774	20	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

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.

TNTC - Too Numerous To Count

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

WORKORDER QUALIFIERS

WO: 60421769

[1]

SAMPLE QUALIFIERS

Sample: 60421769001

[1] Wet Chemistry by Method 9045D - 7.43 at 20C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60421769002

[1] Wet Chemistry by Method 9045D - 7.62 at 19.4C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60421769003

[1] Wet Chemistry by Method 9045D - 7.42 at 19.4C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: 60421769004

[1] Wet Chemistry by Method 9045D - 7.65 at 19.9C

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3891082-1

[1] Wet Chemistry by Method 9050AMod - at 25C

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

SAMPLE QUALIFIERS

Sample: R3891082-2

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3891082-3

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3891082-4

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: R3891232-1

[1] Wet Chemistry by Method 9045D - 9.96 at 19.5C

Sample: R3891232-3

[1] Wet Chemistry by Method 9045D - 7.1 at 20C

Sample: L1585280-03

[1] Wet Chemistry by Method 9050AMod - at 25C

Sample: L1585425-06

[1] Wet Chemistry by Method 9045D - 7.09 at 20C

ANALYTE QUALIFIERS

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

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

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60421769001	OLDSPILL 3' B6 #1	EPA 3546	831694	EPA 8015B	831778
60421769002	OLDSPILL 8' B6 #1	EPA 3546	831694	EPA 8015B	831778
60421769003	OLDSPILL 3' B6 #2	EPA 3546	831694	EPA 8015B	831778
60421769004	OLDSPILL 8' B6 #2	EPA 3546	831694	EPA 8015B	831778
60421769001	OLDSPILL 3' B6 #1	EPA 5035A/5030B	832917	EPA 8015B	833182
60421769002	OLDSPILL 8' B6 #1	EPA 5035A/5030B	832917	EPA 8015B	833182
60421769003	OLDSPILL 3' B6 #2	EPA 5035A/5030B	832917	EPA 8015B	833182
60421769004	OLDSPILL 8' B6 #2	EPA 5035A/5030B	832917	EPA 8015B	833182
60421769001	OLDSPILL 3' B6 #1	HWS Boron	2006452	6010B-NE493 Ch 2	2006452
60421769002	OLDSPILL 8' B6 #1	HWS Boron	2006452	6010B-NE493 Ch 2	2006452
60421769003	OLDSPILL 3' B6 #2	HWS Boron	2006452	6010B-NE493 Ch 2	2006452
60421769004	OLDSPILL 8' B6 #2	HWS Boron	2006452	6010B-NE493 Ch 2	2006452
60421769001	OLDSPILL 3' B6 #1	EPA 3050	831595	EPA 6010	831710
60421769002	OLDSPILL 8' B6 #1	EPA 3050	831595	EPA 6010	831710
60421769003	OLDSPILL 3' B6 #2	EPA 3050	831595	EPA 6010	831710
60421769004	OLDSPILL 8' B6 #2	EPA 3050	831595	EPA 6010	831710
60421769001	OLDSPILL 3' B6 #1	EPA 3050	831594	EPA 6020	831709
60421769002	OLDSPILL 8' B6 #1	EPA 3050	831594	EPA 6020	831709
60421769003	OLDSPILL 3' B6 #2	EPA 3050	831594	EPA 6020	831709
60421769004	OLDSPILL 8' B6 #2	EPA 3050	831594	EPA 6020	831709
60421769001	OLDSPILL 3' B6 #1	EPA 3546	831693	EPA 8270 by SIM	831799
60421769002	OLDSPILL 8' B6 #1	EPA 3546	831693	EPA 8270 by SIM	831799
60421769003	OLDSPILL 3' B6 #2	EPA 3546	831693	EPA 8270 by SIM	831799
60421769004	OLDSPILL 8' B6 #2	EPA 3546	831693	EPA 8270 by SIM	831799
60421769001	OLDSPILL 3' B6 #1	EPA 5035A/5030B	831688	EPA 8260C	831690
60421769002	OLDSPILL 8' B6 #1	EPA 5035A/5030B	831688	EPA 8260C	831690
60421769003	OLDSPILL 3' B6 #2	EPA 5035A/5030B	831688	EPA 8260C	831690
60421769004	OLDSPILL 8' B6 #2	EPA 5035A/5030B	831688	EPA 8260C	831690
60421769001	OLDSPILL 3' B6 #1	ASTM D2974	831480		
60421769002	OLDSPILL 8' B6 #1	ASTM D2974	831480		
60421769003	OLDSPILL 3' B6 #2	ASTM D2974	831480		
60421769004	OLDSPILL 8' B6 #2	ASTM D2974	831480		
60421769001	OLDSPILL 3' B6 #1	SM 2540 G	2006205	SM 2540G	2006205
60421769002	OLDSPILL 8' B6 #1	SM 2540 G	2006205	SM 2540G	2006205
60421769003	OLDSPILL 3' B6 #2	SM 2540 G	2006205	SM 2540G	2006205
60421769004	OLDSPILL 8' B6 #2	SM 2540 G	2006205	SM 2540G	2006205
60421769001	OLDSPILL 3' B6 #1	3060A	2006236	EPA 7199	2006236
60421769002	OLDSPILL 8' B6 #1	3060A	2006236	EPA 7199	2006236
60421769003	OLDSPILL 3' B6 #2	3060A	2006236	EPA 7199	2006236
60421769004	OLDSPILL 8' B6 #2	3060A	2006236	EPA 7199	2006236
60421769001	OLDSPILL 3' B6 #1	9045C/9045D	2006411	EPA 9045D	2006411
60421769002	OLDSPILL 8' B6 #1	9045C/9045D	2006411	EPA 9045D	2006411
60421769003	OLDSPILL 3' B6 #2	9045C/9045D	2006411	EPA 9045D	2006411
60421769004	OLDSPILL 8' B6 #2	9045C/9045D	2006411	EPA 9045D	2006411

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: BRAUKMAN FARM C

Pace Project No.: 60421769

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60421769001	OLDSPILL 3' B6 #1	9050A	2006261	EPA 9050	2006261
60421769002	OLDSPILL 8' B6 #1	9050A	2006261	EPA 9050	2006261
60421769003	OLDSPILL 3' B6 #2	9050A	2006261	EPA 9050	2006261
60421769004	OLDSPILL 8' B6 #2	9050A	2006261	EPA 9050	2006261
60421769001	OLDSPILL 3' B6 #1	Calc	2007311	Calculated	2007311
60421769002	OLDSPILL 8' B6 #1	Calc	2007311	Calculated	2007311
60421769003	OLDSPILL 3' B6 #2	Calc	2007558	Calculated	2007558
60421769004	OLDSPILL 8' B6 #2	Calc	2007311	Calculated	2007311

REPORT OF LABORATORY ANALYSIS

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DC#_Title: ENV-FRM-LENE-0009_Sample

WO#: 60421769

Revision: 2

Effective Date: 01/12/2022

Client Name: Mull Drilling Co.Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☐ Pace ☐ Xroads ☐ Client ☒ Other ☐Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒Custody Seal on Cooler/Box Present: Yes ☐ No ☒ Seals intact: Yes ☐ No ☒Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☒ SCPCThermometer Used: T296 Type of Ice: Wet Blue ☐ None ☐Cooler Temperature (°C): As-read 5.7 Corr. Factor -0.1 Corrected 5.6Date and initials of person
examining contents: 02-10-2023 lu

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? Matrix: <u>SL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO) LOT#:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Samples from USDA Regulated Area: State: <u>Co</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____

Date: _____



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a iLEGAL DOCUMENT. All relevant fields must be completed accurately. Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace Terms and Conditions found at <https://info.pacelabs.com/hubs/pas-standard-terms.pdf>.

Section A

Required Client Information:		Required Project Information:	
Company:	Mull Drilling Company	Report To:	James Beilman
Address:	1700 N Waterfront Pkwy	Copy To:	
	Wichita, KS 67206		
Email:	jbeilman@mulldrilling.com	Purchase Order #:	
Phone:	316-364-6366	Project Name:	0454 Breakman Farms
Requested Due Date:		Project #:	

Section B

Invoice Information:		Attention:	
Company Name:		Company Name:	
Address:		Address:	
Pace Project Manager:	neke-weed@pacelabs.com	Pace Quote:	
Pace Profile #:	15035, 2	State / Location:	CO

Section C

Requested Analysis Filtered (Y/N)		Requested Analysis Filtered (Y/N)	
Y/N	Table 915.1	Y/N	Table 915.1
Y	VOAS/SVOA PAH SIM	Y	VOAS/SVOA PAH SIM
Y	8015 DRO/GRO	Y	8015 DRO/GRO
Y	6010/6020 metals	Y	6010/6020 metals
Y	Paste EC, SAR, pH	Y	Paste EC, SAR, pH
Y	HW Boron, 7199 CrV	Y	HW Boron, 7199 CrV

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Soil/Solid Oil Wipe Air Other Tissue	CODE DW WT WW P SL OL WP AR OT TS	COLLECTED				SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Filtered (Y/N)																Residual Chlorine (Y/N)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				START		END					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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1	Breakmann Farms C-Old Spill	3' BG #1		2/8	0130	2/8	0130	42	4																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Send 7199 CrV, Saturated Paste EC, SAR, pH, and Hot Water Boron to Pace National	K. Sramek	1008	3/6/23	James Beilman	2/10	1026	Y N
	J. Beilman	1026	2/10/23				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on	Custody	Sealed	Cooler	Samples
PRINT Name of SAMPLER: Kent Sramek							
SIGNATURE of SAMPLER: Kent Sramek		DATE Signed: 2/8/23					

Mull Drilling

Client:

Site:

Brookman Farms

Profile #

68262L, 545, PTH, 2000, 7199

Notes

1 W6GW - all SI codes 1 SGFG = 8260 SML

8015680

COC Line Item	Matrix	VG9H	DG9H	DG9Q	VG9U	DG9U	DG9M	DG9B	BG1U	AG1H	AG1U	AG2U	AG3S	AG4U	AG5U	JGFU	WGKU	WGDU	BP1U	BP2U	BP3U	BP1N	BP3N	BP3F	BP3S	BP3C	BP3Z	WPDU	ZPLC	Other
1	SL															2														
2	SL															2														
3	SL															2														
4	SL															2														
5																														
6																														
7																														
8																														
9																														
10																														
11																														
12																														

Container Codes

Glass		Plastic		Misc.	
DG9B	40mL bisulfate clear vial	WGKU	8oz clear soil jar	BPIC	1L NAOH plastic
DG9H	40mL HCl amber vial	WGKU	4oz clear soil jar	BPIN	1L HNO3 plastic
DG9M	40mL MeOH clear vial	WG2U	2oz clear soil jar	BP1S	1L H2SO4 plastic
DG9Q	40mL TSP amber vial	JGFU	4oz unpreserved amber wide	BP1U	1L unpreserved plastic
DG9S	40mL H2SO4 amber vial	AG0U	100mL unores amber glass	BP1Z	1L NaOH, Zn Acetate
DG9T	40mL Na Thio amber vial	AG1H	1L HCl amber glass	BP2C	500mL NAOH plastic
DG9U	40mL amber unpreserved	AG1S	1L H2SO4 amber glass	BP2N	500mL HNO3 plastic
VG9H	40mL HCl clear vial	AG1T	1L Na Thiosulfate clear/amber glass	BP2S	500mL H2SO4 plastic
VG9T	40mL Na Thio. clear vial	AG1U	1liter unpres amber glass	BP2U	500mL unpreserved plastic
VG9U	40mL unpreserved clear vial	AG2N	500mL HNO3 amber glass	BP2Z	500mL NaOH, Zn Acetate
BG1S	1liter H2SO4 clear glass	AG2S	500mL H2SO4 amber glass	BP3C	250mL NaOH plastic
BG1U	1liter unpres glass	AG3S	250mL H2SO4 amber glass	BP3F	250mL HNO3 plastic - field filtered
BG3H	250mL HCL Clear glass	AG2U	500mL unpres amber glass	BP3N	250mL HNO3 plastic
BG3U	250mL Unpres Clear glass	AG3U	250mL unpres amber glass	BP3U	250mL unpreserved plastic
WGDU	16oz clear soil jar	AG4U	125mL unpres amber glass	BP3S	250mL H2SO4 plastic
		AG5U	100mL unpres amber glass	BP3Z	250mL NaOH, Zn Acetate
				BP4U	125mL unpreserved plastic
				BP4N	125mL HNO3 plastic
				BP4S	125mL H2SO4 plastic
				WPDU	16oz unpreserved plastic

Work Order Number:

60421769

Internal Transfer Chain of Custody



☐ Samples Pre-Logged into eCOC.

State Of Origin: CO

Cert. Needed: ☐ Yes

☒ No

Workorder: 60421769

Workorder Name: BRAUKMAN FARM C

Owner Received Date:

2/10/2023

Results Requested By: 2/27/2023



Report To						Subcontract To								Requested Analysis																	
Heather Wilson Pace Analytical Kansas 9608 Loiret Blvd. Lenexa, KS 66219 Phone 1(913)563-1407						Pace National 12065 Lebanon Rd Mt. Juliet, TN 37122 Phone (615) 758-5858								<div style="float: right; font-size: 2em;">L158537</div>																	
						Preserved Containers																									
Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	Unpreserved							7199 Criv	Hot Water Boron	Saturated Paste EC, SAR, pH																
1	OLDSPILL 3' B6 #1	PS	2/8/2023 01:30	60421769001	Solid	1							X	X	X																
2	OLDSPILL 8' B6 #1	PS	2/8/2023 01:40	60421769002	Solid	1							X	X	X																
3	OLDSPILL 3' B6 #2	PS	2/8/2023 02:00	60421769003	Solid	1							X	X	X																
4	OLDSPILL 8' B6 #2	PS	2/8/2023 02:15	60421769004	Solid	1							X	X	X																
5																															
													Comments																		
Transfers		Released By		Date/Time	Received By		Date/Time																								
1				2/13/2023																											
2																															
3							2/14/23 930																								
Cooler Temperature on Receipt				Custody Seal				Received on Ice				Samples Intact																			
4.4 °C				Y or N				Y or N				X or N																			

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.

This chain of custody is considered complete as is since this information is available in the owner laboratory.

Sample Receipt Checklist

COC Seal Present/Intact:	<u>Y</u>	N	IF Applicable	
COC Signed/Accurate:	<u>Y</u>	N	VOA Zero Headspace:	<u>Y</u> N
Bottles arrive intact:	<u>Y</u>	N	Pres. Correct/Check:	<u>Y</u> N
Correct bottles used:	<u>Y</u>	N		
Sufficient volume sent:	<u>Y</u>	N		
RAD Screen <0.5 mR/hr:	<u>Y</u>	N		

NSAG
44+0=44

NSAC
4.4+0=4.4
6091 0796 0847