PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701

PBELAB

Analytical Report

Prepared for:

Kevin Freeman
Burnett Oil Company, Inc.
24 Smith Road Suite 100
Midland, TX 79705

Project: Gissler B-5
Project Number: 10
Location: Loco Hills, NM

Lab Order Number: 6H05005

NELAP/TCEQ # T104704156-13-3

Report Date: 08/17/16

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1 (0-1')	6H05005-01	Soil	08/05/16 00:00	08-05-2016 11:20
SP1 (1-1.5')	6H05005-02	Soil	08/05/16 00:00	08-05-2016 11:20
SP1 (2-2.5')	6H05005-03	Soil	08/05/16 00:00	08-05-2016 11:20
SP2 (0-1')	6H05005-04	Soil	08/05/16 00:00	08-05-2016 11:20
SP2 (1-1.5')	6H05005-05	Soil	08/05/16 00:00	08-05-2016 11:20
SP2 (2-2.5')	6H05005-06	Soil	08/05/16 00:00	08-05-2016 11:20
SP2 (3-3.5")	6H05005-07	Soil	08/05/16 00:00	08-05-2016 11:20
SP2 (4-4.5')	6H05005-08	Soil	08/05/16 00:00	08-05-2016 11:20
SP3 (0-1')	6H05005-09	Soil	08/05/16 00:00	08-05-2016 11:20
SP3 (1-1.5')	6H05005-10	Soil	08/05/16 00:00	08-05-2016 11:20
SP3 (2-2.5')	6H05005-11	Soil	08/05/16 00:00	08-05-2016 11:20
SP3 (3-3.5")	6H05005-12	Soil	08/05/16 00:00	08-05-2016 11:20
SP3 (4-4.5')	6H05005-13	Soil	08/05/16 00:00	08-05-2016 11:20
SP4 (0-1')	6H05005-14	Soil	08/05/16 00:00	08-05-2016 11:20
SP4 (1-1.5')	6H05005-15	Soil	08/05/16 00:00	08-05-2016 11:20
SP4 (2-2.5')	6H05005-16	Soil	08/05/16 00:00	08-05-2016 11:20
SP4 (3-3.5")	6H05005-17	Soil	08/05/16 00:00	08-05-2016 11:20
SP4 (4-4.5')	6H05005-18	Soil	08/05/16 00:00	08-05-2016 11:20
SP5 (0-1')	6H05005-19	Soil	08/05/16 00:00	08-05-2016 11:20
SP5 (1-1.5')	6H05005-20	Soil	08/05/16 00:00	08-05-2016 11:20
SP5 (2-2.5')	6H05005-21	Soil	08/05/16 00:00	08-05-2016 11:20
SP5 (3-3.5")	6H05005-22	Soil	08/05/16 00:00	08-05-2016 11:20

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SP1 (0-1')

6H05005-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**25.4**	1.03	mg/kg dry	1	P6H0901	08/08/16	08/09/16	EPA 300.0	
% Moisture	**3.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**148**	25.8	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**1370**	25.8	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**235**	25.8	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*123 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**1750**	25.8	mg/kg dry	1	[CALC]	08/16/16	08/16/16	calc	

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SP1 (1-1.5')

6H05005-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1010**	12.5	mg/kg dry	10	P6H1003	08/09/16	08/12/16	EPA 300.0	
% Moisture	**20.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP1 (2-2.5')

6H05005-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**109**	1.12	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**11.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP2 (0-1')

6H05005-04 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**0.832**	0.109	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Toluene	**10.5**	0.217	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Ethylbenzene	**3.48**	0.109	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (p/m)	**25.6**	0.217	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (o)	**16.5**	0.109	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*97.5 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*112 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.7**	1.09	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2550**	136	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**10900**	136	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**2040**	136	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*127 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**15500**	136	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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SP2 (1-1.5')

6H05005-05 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**1.51**	0.106	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Toluene	**22.7**	0.213	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Ethylbenzene	**17.0**	0.106	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (p/m)	**46.5**	0.213	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (o)	**27.1**	0.106	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Surrogate: 4-Bromofluorobenzene		*117 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
Surrogate: 1,4-Difluorobenzene		*92.4 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8.33**	1.06	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**2110**	133	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**5820**	133	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**1160**	133	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*104 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**9080**	133	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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SP2 (2-2.5')

6H05005-06 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**3.88**	0.122	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Toluene	**98.3**	0.244	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Ethylbenzene	**102**	0.122	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (p/m)	**117**	0.244	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Xylene (o)	**67.9**	0.122	mg/kg dry	100	P6H0909	08/09/16	08/09/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*101 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*108 %*	*75-125*		*P6H0909*	*08/09/16*	*08/09/16*	*EPA 8021B*	
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**8.10**	1.22	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**18.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**6720**	152	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**13300**	152	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**2440**	152	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*131 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	*S-GC*
Surrogate: o-Terphenyl		*109 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**22500**	152	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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SP2 (3-3.5'')

6H05005-07 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	**2.55**	0.287	mg/kg dry	250	P6H0909	08/09/16	08/10/16	EPA 8021B	
Toluene	**2.30**	0.575	mg/kg dry	250	P6H0909	08/09/16	08/10/16	EPA 8021B	
Ethylbenzene	**2.83**	0.287	mg/kg dry	250	P6H0909	08/09/16	08/10/16	EPA 8021B	
Xylene (p/m)	**8.72**	0.575	mg/kg dry	250	P6H0909	08/09/16	08/10/16	EPA 8021B	
Xylene (o)	**1.91**	0.287	mg/kg dry	250	P6H0909	08/09/16	08/10/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*102 %*	*75-125*		*P6H0909*	*08/09/16*	*08/10/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*140 %*	*75-125*		*P6H0909*	*08/09/16*	*08/10/16*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.24**	1.15	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**13.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**107**	28.7	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**670**	28.7	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**121**	28.7	mg/kg dry	1	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*129 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*134 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	*S-GC*
Total Petroleum Hydrocarbon C6-C35	**897**	28.7	mg/kg dry	1	[CALC]	08/16/16	08/16/16	calc	

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SP2 (4-4.5')

6H05005-08 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.12**	1.02	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP3 (0-1')

6H05005-09 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.01**	1.02	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1650**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**5950**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**885**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*114 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*115 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**8490**	128	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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SP3 (1-1.5')

6H05005-10 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**559**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**2830**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**436**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*122 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*108 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**3830**	128	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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SP3 (2-2.5')

6H05005-11 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**1.22**	1.05	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP3 (3-3.5'')

6H05005-12 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**4.41**	1.05	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP3 (4-4.5')

6H05005-13 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.38**	1.05	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

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SP4 (0-1')

6H05005-14 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	ND	1.02	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**2.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**558**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C12-C28	**3530**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
>C28-C35	**592**	128	mg/kg dry	5	P6H1706	08/16/16	08/16/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*123 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*124 %*	*70-130*		*P6H1706*	*08/16/16*	*08/16/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**4680**	128	mg/kg dry	5	[CALC]	08/16/16	08/16/16	calc	

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Midland TX, 79705	Project Manager: Kevin Freeman	

SP4 (1-1.5')

6H05005-15 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**2.60**	1.09	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**8.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP4 (2-2.5')

6H05005-16 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**3.97**	1.10	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**9.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP4 (3-3.5'')

6H05005-17 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.62**	1.08	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**7.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP4 (4-4.5')

6H05005-18 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**7.49**	1.05	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**5.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP5 (0-1')

6H05005-19 (Soil)

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organics by GC									
Benzene	ND	0.0213	mg/kg dry	20	P6H0909	08/09/16	08/10/16	EPA 8021B	
Toluene	**1.40**	0.0426	mg/kg dry	20	P6H0909	08/09/16	08/10/16	EPA 8021B	
Ethylbenzene	**1.17**	0.0213	mg/kg dry	20	P6H0909	08/09/16	08/10/16	EPA 8021B	
Xylene (p/m)	**7.45**	0.0426	mg/kg dry	20	P6H0909	08/09/16	08/10/16	EPA 8021B	
Xylene (o)	**5.71**	0.0213	mg/kg dry	20	P6H0909	08/09/16	08/10/16	EPA 8021B	
Surrogate: 1,4-Difluorobenzene		*93.1 %*	*75-125*		*P6H0909*	*08/09/16*	*08/10/16*	*EPA 8021B*	
Surrogate: 4-Bromofluorobenzene		*144 %*	*75-125*		*P6H0909*	*08/09/16*	*08/10/16*	*EPA 8021B*	*S-GC*
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**10.6**	1.06	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**6.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	**1310**	133	mg/kg dry	5	P6H1706	08/16/16	08/17/16	TPH 8015M	
>C12-C28	**7480**	133	mg/kg dry	5	P6H1706	08/16/16	08/17/16	TPH 8015M	
>C28-C35	**1320**	133	mg/kg dry	5	P6H1706	08/16/16	08/17/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*125 %*	*70-130*		*P6H1706*	*08/16/16*	*08/17/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*129 %*	*70-130*		*P6H1706*	*08/16/16*	*08/17/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**10100**	133	mg/kg dry	5	[CALC]	08/16/16	08/17/16	calc	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP5 (1-1.5')

6H05005-20 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**5.82**	1.11	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**10.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	
Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M									
C6-C12	ND	27.8	mg/kg dry	1	P6H1706	08/16/16	08/17/16	TPH 8015M	
>C12-C28	**54.0**	27.8	mg/kg dry	1	P6H1706	08/16/16	08/17/16	TPH 8015M	
>C28-C35	**34.2**	27.8	mg/kg dry	1	P6H1706	08/16/16	08/17/16	TPH 8015M	
Surrogate: 1-Chlorooctane		*112 %*	*70-130*		*P6H1706*	*08/16/16*	*08/17/16*	*TPH 8015M*	
Surrogate: o-Terphenyl		*118 %*	*70-130*		*P6H1706*	*08/16/16*	*08/17/16*	*TPH 8015M*	
Total Petroleum Hydrocarbon C6-C35	**88.2**	27.8	mg/kg dry	1	[CALC]	08/16/16	08/17/16	calc	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP5 (2-2.5')

6H05005-21 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Permian Basin Environmental Lab, L.P.									
General Chemistry Parameters by EPA / Standard Methods									
Chloride	**6.79**	1.18	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**15.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Burnett Oil Company, Inc.	Project: Gissler B-5	Fax:
24 Smith Road Suite 100	Project Number: 10	
Midland TX, 79705	Project Manager: Kevin Freeman	

SP5 (3-3.5'')

6H05005-22 (Soil)

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Chloride	**14.2**	1.16	mg/kg dry	1	P6H1004	08/09/16	08/12/16	EPA 300.0	
% Moisture	**14.0**	0.1	%	1	P6H1101	08/11/16	08/11/16	% calculation	

Organics by GC - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H0909 - General Preparation (GC)										
Blank (P6H0909-BLK1)				Prepared & Analyzed: 08/09/16						
Benzene	ND	0.00100	mg/kg wet							
Toluene	ND	0.00200	"							
Ethylbenzene	ND	0.00100	"							
Xylene (p/m)	ND	0.00200	"							
Xylene (o)	ND	0.00100	"							
Surrogate: 1,4-Difluorobenzene	*0.0643*		*"*	*0.0600*		*107*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0860*		*"*	*0.0600*		*143*	*75-125*			*S-GC*
LCS (P6H0909-BS1)				Prepared & Analyzed: 08/09/16						
Benzene	0.104	0.00100	mg/kg wet	0.110		94.7	70-130			
Toluene	0.113	0.00200	"	0.110		103	70-130			
Ethylbenzene	0.122	0.00100	"	0.110		110	70-130			
Xylene (p/m)	0.244	0.00200	"	0.220		111	70-130			
Xylene (o)	0.125	0.00100	"	0.110		114	70-130			
Surrogate: 1,4-Difluorobenzene	*0.0694*		*"*	*0.0600*		*116*	*75-125*			
Surrogate: 4-Bromofluorobenzene	*0.0866*		*"*	*0.0600*		*144*	*75-125*			*S-GC*
LCS Dup (P6H0909-BSD1)				Prepared: 08/09/16 Analyzed: 08/10/16						
Benzene	0.110	0.00100	mg/kg wet	0.110		100	70-130	5.42	20	
Toluene	0.111	0.00200	"	0.110		101	70-130	1.95	20	
Ethylbenzene	0.130	0.00100	"	0.110		118	70-130	6.57	20	
Xylene (p/m)	0.264	0.00200	"	0.220		120	70-130	7.85	20	
Xylene (o)	0.147	0.00100	"	0.110		133	70-130	15.8	20	
Surrogate: 4-Bromofluorobenzene	*0.106*		*"*	*0.0600*		*176*	*75-125*			*S-GC*
Surrogate: 1,4-Difluorobenzene	*0.0600*		*"*	*0.0600*		*100*	*75-125*			
Duplicate (P6H0909-DUP1)		**Source: 6H08001-01**		Prepared & Analyzed: 08/09/16						
Benzene	0.527	0.106	mg/kg dry		0.766			37.0	20	R3
Toluene	8.32	0.213	"		12.9			43.2	20	R3
Ethylbenzene	2.48	0.106	"		3.73			40.3	20	R3
Xylene (p/m)	24.2	0.213	"		38.6			45.7	20	R3
Xylene (o)	5.47	0.106	"		8.85			47.3	20	R3
Surrogate: 4-Bromofluorobenzene	*0.0538*		*"*	*0.0638*		*84.3*	*75-125*			
Surrogate: 1,4-Difluorobenzene	*0.0496*		*"*	*0.0638*		*77.8*	*75-125*			

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H0901 - * DEFAULT PREP *** **										
Blank (P6H0901-BLK1)				Prepared & Analyzed: 08/08/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6H0901-BS1)				Prepared & Analyzed: 08/08/16						
Chloride	439	1.00	mg/kg wet	400		110	80-120			
LCS Dup (P6H0901-BSD1)				Prepared & Analyzed: 08/08/16						
Chloride	447	1.00	mg/kg wet	400		112	80-120	1.67	20	
Duplicate (P6H0901-DUP1)		**Source: 6H03015-05**		Prepared & Analyzed: 08/08/16						
Chloride	2770	5.49	mg/kg dry		2770			0.0158	20	
Duplicate (P6H0901-DUP2)		**Source: 6H03015-15**		Prepared: 08/08/16 Analyzed: 08/09/16						
Chloride	3400	11.5	mg/kg dry		3400			0.108	20	
Batch P6H1003 - * DEFAULT PREP *** **										
Blank (P6H1003-BLK1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6H1003-BS1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	410	1.00	mg/kg wet	400		102	80-120			
LCS Dup (P6H1003-BSD1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	418	1.00	mg/kg wet	400		105	80-120	2.02	20	
Duplicate (P6H1003-DUP1)		**Source: 6H09001-01**		Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	2890	11.4	mg/kg dry		2610			10.2	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H1003 - * DEFAULT PREP *** **										
Duplicate (P6H1003-DUP2)	**Source: 6H05008-02**			Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	1710	5.05	mg/kg dry		1520			11.5	20	
Batch P6H1004 - * DEFAULT PREP *** **										
Blank (P6H1004-BLK1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	ND	1.00	mg/kg wet							
LCS (P6H1004-BS1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	420	1.00	mg/kg wet	400		105	80-120			
LCS Dup (P6H1004-BSD1)				Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	418	1.00	mg/kg wet	400		104	80-120	0.459	20	
Duplicate (P6H1004-DUP1)	**Source: 6H05005-05**			Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	6.79	1.06	mg/kg dry		8.33			20.4	20	R4
Duplicate (P6H1004-DUP2)	**Source: 6H05005-13**			Prepared: 08/09/16 Analyzed: 08/12/16						
Chloride	3.13	1.05	mg/kg dry		5.38			53.0	20	R4
Batch P6H1101 - * DEFAULT PREP *** **										
Blank (P6H1101-BLK1)				Prepared & Analyzed: 08/11/16						
% Moisture	ND	0.1	%							
Duplicate (P6H1101-DUP1)	**Source: 6H05007-01**			Prepared & Analyzed: 08/11/16						
% Moisture	2.0	0.1	%		3.0			40.0	20	

General Chemistry Parameters by EPA / Standard Methods - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H1101 - * DEFAULT PREP *** **										
Duplicate (P6H1101-DUP2)		**Source: 6H05012-17**		Prepared & Analyzed: 08/11/16						
% Moisture	5.0	0.1	%		4.0			22.2	20	
Duplicate (P6H1101-DUP3)		**Source: 6H05018-06**		Prepared & Analyzed: 08/11/16						
% Moisture	8.0	0.1	%		8.0			0.00	20	

Total Petroleum Hydrocarbons C6-C35 by EPA Method 8015M - Quality Control

Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch P6H1706 - TX 1005										
Blank (P6H1706-BLK1)				Prepared & Analyzed: 08/16/16						
C6-C12	ND	25.0	mg/kg wet							
>C12-C28	ND	25.0	"							
>C28-C35	ND	25.0	"							
Surrogate: 1-Chlorooctane	*121*		*"*	*100*		*121*	*70-130*			
Surrogate: o-Terphenyl	*62.0*		*"*	*50.0*		*124*	*70-130*			
LCS (P6H1706-BS1)				Prepared & Analyzed: 08/16/16						
C6-C12	1200	25.0	mg/kg wet	1000		120	75-125			
>C12-C28	1170	25.0	"	1000		117	75-125			
Surrogate: 1-Chlorooctane	*113*		*"*	*100*		*113*	*70-130*			
Surrogate: o-Terphenyl	*62.7*		*"*	*50.0*		*125*	*70-130*			
LCS Dup (P6H1706-BSD1)				Prepared & Analyzed: 08/16/16						
C6-C12	1060	25.0	mg/kg wet	1000		106	75-125	12.8	20	
>C12-C28	1100	25.0	"	1000		110	75-125	5.61	20	
Surrogate: 1-Chlorooctane	*127*		*"*	*100*		*127*	*70-130*			
Surrogate: o-Terphenyl	*60.4*		*"*	*50.0*		*121*	*70-130*			
Duplicate (P6H1706-DUP1)	**Source: 6H05005-13**			Prepared: 08/16/16 Analyzed: 08/17/16						
C6-C12	220	26.3	mg/kg dry		197			10.9	20	
>C12-C28	1790	26.3	"		1660			7.51	20	
Surrogate: 1-Chlorooctane	*137*		*"*	*105*		*130*	*70-130*			
Surrogate: o-Terphenyl	*68.9*		*"*	*52.6*		*131*	*70-130*			*S-GC*

Notes and Definitions

S-GC	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
R4	Due to the low levels of analyte in the sample, the duplicate RPD calculation does not provide useful information.
R3	The RPD exceeded the acceptance limit due to sample matrix effects.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
LCS	Laboratory Control Spike
MS	Matrix Spike
Dup	Duplicate

Report Approved By:  Date: 8/17/2016

Brent Barron, Laboratory Director/Technical Director

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Titsworth
Company Name: Burnett Oil Company, Inc.
Company Address: 24 Smith Road, Suite 100
City/State/Zip: Midland, TX 70705
Telephone No: 432-425-2891 Fax No: 817-332-2438
Sampler Signature:
e-mail: jtitsworth@burnettoil.com; k.freeman@aspengrow.us; nesg@cox.net; d.holt@aspengrow.us

Project Name: GISSLER B-5
Project #: 10
Project Loc: Loco Hills, NM
PO #:
Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 16H05005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250-ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge / GW = Groundwater S=Soil/Solid / NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
-1	SP1-0'-1'	S	1'	08/05/16													X	X			
-2	SP1-1'-1.5'	S	1.5'	08/05/16													X	X			
-3	SP1-2'-2.5'	S	2.5'	08/05/16													X	X			
-	SP1-3'-3.5"	S	3.5'	08/05/16													refusal				
	SP1-4'-4.5'	S	4.5'	08/05/16													refusal				
-4	SP2-0'-1'	S	1'	08/05/16													X	X	X		
-5	SP2-1'-1.5'	S	1.5'	08/05/16													X	X	X		
-6	SP2-2'-2.5'	S	2.5'	08/05/16													X	X	X		
-7	SP2-3'-3.5"	S	3.5'	08/05/16													X	X	X		
-8	SP2-4'-4.5'	S	4.5'	08/05/16													X	X	X		

Special Instructions:
BTEX AT SP-2 AND SP-5 RUN 0'-1' IF BTEX OVER 50 MG/KG OR BENZENE OVER 10 MG/KG RUN DEEPER SAMPLE
RUN TPH ON ALL, RUN 0'-1', IF TPH EXCEEDS 5,000 MG/KG RUN DEEPER SAMPLE / RUN CHLORIDES ON ALL SAMPLES

	Date	Time		Date	Time
Relinquished by:	8/5/2016				
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	8-5-16	11:20

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N
by Courier? UPS DHL FedEx Lone Star		
Temperature Upon Receipt:		
Received: °C		
Adjusted: -1 °C Factor NCF L1		

PBELAB

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Titsworth

Company Name: Burnett Oil Company, Inc.

Company Address: 24 Smith Road, Suite 100

City/State/Zip: Midland, TX 70705

Telephone No: 432-425-2891 Fax No: 817-332-2438

Sampler Signature:

e-mail: jtitsworth@burnettoil.com
k.freeman@aspengrow.us
nesg@cox.net
d.holt@aspengrow.us

Project Name: GISSLER B-5

Project #: 10

Project Loc: Loco Hills, NM

PO #:

Report Format: X Standard ☐ TRRP ☐ NPDES

(lab use only) ORDER #: 6H05005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3 250 ml Poly	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
-9	SP3-0'-1'	S	1'	08/05/16															X	X			
-10	SP3-1'-1.5'	S	1.5'	08/05/16															X	X			
-11	SP3-2'-2.5'	S	2.5'	08/05/16															X	X			
-12	SP3-3'-3.5"	S	3.5'	08/05/16															X	X			
-13	SP3-4'-4.5'	S	4.5'	08/05/16															X	X			
-14	SP4-0'-1'	S	1'	08/05/16															X	X			
-15	SP4-1'-1.5'	S	1.5'	08/05/16															X	X			
-16	SP4-2'-2.5'	S	2.5'	08/05/16															X	X			
-17	SP4-3'-3.5"	S	3.5'	08/05/16															X	X			
-18	SP4-4'-4.5'	S	4.5'	08/05/16															X	X			

Special Instructions:
BTEX AT SP-2 AND SP-5 RUN 0'-1' IF BTEX OVER 50 MG/KG OR BENZENE OVER 10 MG/KG RUN DEEPER SAMPLE
RUN TPH ON ALL, RUN 0'-1', IF TPH EXCEEDS 5,000 MG/KG RUN DEEPER SAMPLE / RUN CHLORIDES ON ALL SAMPLES

Relinquished by:	Date 8/5/2016	Time		Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date 8.5.16	Time 11:20

Laboratory Comments:

Sample Containers Intact?	N
VOCs Free of Headspace?	N
Labels on container(s)	N
Custody seals on container(s)	N
Custody seals on cooler(s)	N
Sample Hand Delivered	N
by Sampler/Client Rep. ?	N
by Courier?	UPS DHL FedEx Lone Star
Temperature Upon Receipt:	
Received: -1	°C
Adjusted:	°C Factor N/E 4

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Permian Basin Environmental Lab, LP
1400 Rankin Hwy
Midland, Texas 79701

Phone: 432-686-7235

Project Manager: Kevin Freeman & Johnny Titsworth

Company Name: Burnett Oil Company, Inc.

Company Address: 24 Smith Road, Suite 100

City/State/Zip: Midland, TX 70705

Telephone No: 432-425-2891 Fax No: 817-332-2438

Sampler Signature:

e-mail: jtitsworth@burnettoil.com
k.freeman@aspengrow.us
nesg@cox.net
d.holt@aspengrow.us

Project Name: GISSLER B-5

Project #: 10

Project Loc: Loco Hills, NM

PO #:

Report Format: X Standard TRRP NPDES

(lab use only) ORDER #: 616050005

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3 250 ml Poly	HCl	H2SO4	NaOH	Na2S2O3	None 1L Poly	NaOH/ZnAc	Matrix: DW=Drinking Water SL=Sludge	GW = Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	Analyze For: TPH by TX 1005 8015B 8015M	Chloride	BTEX by 8021B	Rush 24 48 72 (Please call)	Standard
-19	SP5-0'-1'	S	1'	08/05/16															X	X	X		
-20	SP5-1'-1.5'	S	1.5'	08/05/16															X	X	X		
-21	SP5-2'-2.5'	S	2.5'	08/05/16															X	X	X		
-22	SP5-3'-3.5"	S	3.5'	08/05/16															X	X	X		
-23	SP5-4'-4.5'	S	4.5'	08/05/16															refusal				

Special Instructions:
BTEX AT SP-2 AND SP-5 RUN 0'-1' IF BTEX OVER 50 MG/KG OR BENZENE OVER 10 MG/KG RUN DEEPER SAMPLE
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Custody seals on cooler(s)	N
Sample Hand Delivered	N
by Sampler/Client Rep. ?	N
by Courier? UPS DHL FedEx Lone Star	
Temperature Upon Receipt:	
Received: °C	
Adjusted: -1 °C Factor ACF L1	