

August 23, 2019

Report to:

Randall Miller  
North Park Engineering & Consulting, Inc  
P.O. Box 395  
Walden, CO 80480

Bill to:

Randall Miller  
North Park Engineering & Consulting, Inc  
P.O. Box 395  
Walden, CO 80480

cc: Mark Brown

Project ID: Markus Production

ACZ Project ID: L53948

Randall Miller:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 16, 2019. This project has been assigned to ACZ's project number, L53948. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L53948. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after September 22, 2019. If the samples are determined to be hazardous, additional charges apply for disposal (typically \$11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.



Sue Webber has reviewed and  
approved this report.



**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: TINHORN PIT 1 NORTH

ACZ Sample ID: **L53948-01**

Date Sampled: 08/15/19 15:30

Date Received: 08/16/19

Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**

Extract Method: **5035A**

**Workgroup:** WG479692

Analyst: jel

Extract Date: 08/21/19 14:51

Analysis Date: 08/21/19 14:51

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	5	*	ug/Kg	5	5
Ethylbenzene	100-41-4		U	5	*	ug/Kg	5	5
m p Xylene	1330-20-7	10		5	*	ug/Kg	10	10
o Xylene	95-47-6	8		5	*	ug/Kg	5	5
Toluene	108-88-3		U	5	*	ug/Kg	5	5
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	104.4		5		%	70	130

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: TINHORN PIT 1 NORTH

ACZ Sample ID: **L53948-01**

Date Sampled: 08/15/19 15:30

Date Received: 08/16/19

Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**

Analysis Method: **M8015D GC/FID**

Extract Method: **M3540**

**Workgroup:** WG479890

Analyst: kfm

Extract Date: 08/20/19 16:06

Analysis Date: 08/22/19 12:34

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		1630		0.791	*	mg/Kg	79.1	396
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	80.17		0.791		%	60	115

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: TINHORN PIT 1 SOUTH

ACZ Sample ID: **L53948-02**

Date Sampled: 08/15/19 15:40

Date Received: 08/16/19

Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**

Extract Method: **5035A**

**Workgroup:** WG479692

Analyst: jel

Extract Date: 08/21/19 15:22

Analysis Date: 08/21/19 15:22

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	5	*	ug/Kg	5	5
Ethylbenzene	100-41-4		U	5	*	ug/Kg	5	5
m p Xylene	1330-20-7		U	5	*	ug/Kg	10	10
o Xylene	95-47-6		U	5	*	ug/Kg	5	5
Toluene	108-88-3		U	5	*	ug/Kg	5	5
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	101.9		5		%	70	130

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: TINHORN PIT 1 SOUTH

ACZ Sample ID: **L53948-02**

Date Sampled: 08/15/19 15:40

Date Received: 08/16/19

Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**Analysis Method: **M8015D GC/FID**Extract Method: **M3540****Workgroup:** WG479890

Analyst: kfm

Extract Date: 08/20/19 17:52

Analysis Date: 08/22/19 13:45

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		710		0.809	*	mg/Kg	80.9	405
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	73.27		0.809		%	60	115

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production  
 Sample ID: TINHORN PIT 1 WEST

ACZ Sample ID: **L53948-03**  
 Date Sampled: 08/15/19 15:50  
 Date Received: 08/16/19  
 Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**  
 Extract Method: **5035A**

**Workgroup: WG479692**

Analyst: jel  
 Extract Date: 08/21/19 15:53  
 Analysis Date: 08/21/19 15:53

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	5	*	ug/Kg	5	5
Ethylbenzene	100-41-4		U	5	*	ug/Kg	5	5
m p Xylene	1330-20-7		U	5	*	ug/Kg	10	10
o Xylene	95-47-6	7		5	*	ug/Kg	5	5
Toluene	108-88-3		U	5	*	ug/Kg	5	5
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	96.3		5		%	70	130

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: TINHORN PIT 1 WEST

ACZ Sample ID: **L53948-03**

Date Sampled: 08/15/19 15:50

Date Received: 08/16/19

Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**

Analysis Method: **M8015D GC/FID**

Extract Method: **M3540**

**Workgroup:** WG479890

Analyst: kfm

Extract Date: 08/20/19 18:27

Analysis Date: 08/22/19 14:08

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		2850		0.794	*	mg/Kg	79.4	397
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	99.06		0.794		%	60	115

**North Park Engineering & Consulting, Inc**  
 Project ID: Markus Production  
 Sample ID: OVERFLOW PIT 2 BOTTOM

ACZ Sample ID: **L53948-04**  
 Date Sampled: 08/15/19 16:00  
 Date Received: 08/16/19  
 Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**  
 Extract Method: **5035A**

**Workgroup: WG479692**

Analyst: jel  
 Extract Date: 08/22/19 11:44  
 Analysis Date: 08/22/19 11:44

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	10	*	ug/Kg	10	10
Ethylbenzene	100-41-4	120		10	*	ug/Kg	10	10
m p Xylene	1330-20-7	410		10		ug/Kg	20	20
o Xylene	95-47-6	300		10		ug/Kg	10	10
Toluene	108-88-3	80		10	*	ug/Kg	10	10
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	105.9		10		%	70	130



**North Park Engineering & Consulting, Inc**  
 Project ID: Markus Production  
 Sample ID: OVERFLOW PIT 2 BOTTOM

ACZ Sample ID: **L53948-04**  
 Date Sampled: 08/15/19 16:00  
 Date Received: 08/16/19  
 Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**

Analysis Method: **M8015D GC/FID**  
 Extract Method: **M3540**

**Workgroup:** WG479890

Analyst: kfm  
 Extract Date: 08/20/19 19:03  
 Analysis Date: 08/22/19 14:32

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		1960		0.758	*	mg/Kg	75.8	379
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	94.07		0.758		%	60	115

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: OVERFLOW PIT 2 WEST

ACZ Sample ID: **L53948-05**

Date Sampled: 08/15/19 16:10

Date Received: 08/16/19

Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**

Extract Method: **5035A**

**Workgroup: WG479692**

Analyst: jel

Extract Date: 08/21/19 16:55

Analysis Date: 08/21/19 16:55

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	5	*	ug/Kg	5	5
Ethylbenzene	100-41-4		U	5	*	ug/Kg	5	5
m p Xylene	1330-20-7		U	5	*	ug/Kg	10	10
o Xylene	95-47-6		U	5	*	ug/Kg	5	5
Toluene	108-88-3		U	5	*	ug/Kg	5	5
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	101.1		5		%	70	130

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: OVERFLOW PIT 2 WEST

ACZ Sample ID: **L53948-05**

Date Sampled: 08/15/19 16:10

Date Received: 08/16/19

Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**

Analysis Method: **M8015D GC/FID**

Extract Method: **M3540**

**Workgroup:** WG479890

Analyst: kfm

Extract Date: 08/20/19 19:38

Analysis Date: 08/22/19 14:55

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		740		0.647	*	mg/Kg	64.7	323
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	30.69		0.647	*	%	60	115

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: SPILL SOUTH

ACZ Sample ID: **L53948-06**

Date Sampled: 08/15/19 16:20

Date Received: 08/16/19

Sample Matrix: Soil

**Benzene, Toluene, Ethylbenzene & Xylenes**

Analysis Method: **M8021B GC/PID**

Extract Method: **5035A**

**Workgroup: WG479692**

Analyst: jel

Extract Date: 08/21/19 17:26

Analysis Date: 08/21/19 17:26

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	5	*	ug/Kg	5	5
Ethylbenzene	100-41-4		U	5	*	ug/Kg	5	5
m p Xylene	1330-20-7		U	5	*	ug/Kg	10	10
o Xylene	95-47-6		U	5	*	ug/Kg	5	5
Toluene	108-88-3		U	5	*	ug/Kg	5	5
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	82.7		5		%	70	130

**North Park Engineering & Consulting, Inc**

Project ID: Markus Production

Sample ID: SPILL SOUTH

ACZ Sample ID: **L53948-06**

Date Sampled: 08/15/19 16:20

Date Received: 08/16/19

Sample Matrix: Soil

**Diesel Range Organics (C10-C28)**

Analysis Method: **M8015D GC/FID**

Extract Method: **M3540**

**Workgroup:** WG479890

Analyst: kfm

Extract Date: 08/20/19 20:13

Analysis Date: 08/22/19 15:42

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
TPH C10 to C28		4400		0.636	*	mg/Kg	63.6	318
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
OTP	84-15-1	89.47		0.636		%	60	115

ACZ Project ID: **L53948**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L53948-01	WG479692	Benzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		m p Xylene	M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		o Xylene	M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		TPH C10 to C28	M8015D GC/FID	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
L53948-02	WG479692	Benzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		m p Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	o Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
L53948-03	WG479692	Benzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		m p Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	o Xylene	M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.

ACZ Project ID: **L53948**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	TPH C10 to C28	M8015D GC/FID	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
<b>L53948-04</b>	WG479692	Benzene	M8021B GC/PID	D5	Sample required dilution. Sample matrix causing internal standards to recover outside method limits.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Toluene	M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	TPH C10 to C28	M8015D GC/FID	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
<b>L53948-05</b>	WG479692	Benzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		m p Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		o Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
	WG479890	OTP	M8015D GC/FID	S8	The sample required a dilution such that the surrogate recovery calculation does not provide useful information. The recovery for the associated control sample was acceptable.
		TPH C10 to C28	M8015D GC/FID	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
<b>L53948-06</b>	WG479692	Benzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Ethylbenzene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		m p Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.

ACZ Project ID: **L53948**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
		o Xylene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
		Toluene	M8021B GC/PID	D1	Sample required dilution due to matrix.
			M8021B GC/PID	ZM	Data is estimated because result is below 200 ug/Kg; ACZ does not have a closed-system purge and trap as described in method 5035.
WG479890	TPH C10 to C28		M8015D GC/FID	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.



North Park Engineering & Consulting, Inc

ACZ Project ID: **L53948**

No certification qualifiers associated with this analysis

North Park Engineering & Consulting, Inc  
Markus Production

ACZ Project ID: L53948  
Date Received: 08/16/2019 08:10  
Received By:  
Date Printed: 8/19/2019

#### Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2) Is the Chain of Custody form or other directive shipping papers present?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3) Does this project require special handling procedures such as CLP protocol?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4) Are any samples NRC licensable material?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5) If samples are received past hold time, proceed with requested short hold time analyses?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6) Is the Chain of Custody form complete and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7) Were any changes made to the Chain of Custody form prior to ACZ receiving the samples?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
A change was made in the Sample Identification: Date:Time section prior to ACZ custody.			

#### Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9) Are all labels on containers and are they intact and legible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10) Do the sample labels and Chain of Custody form match for Sample ID, Date, and Time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11) For preserved bottle types, was the pH checked and within limits? <sup>1</sup>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12) Is there sufficient sample volume to perform all requested work?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13) Is the custody seal intact on all containers?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14) Are samples that require zero headspace acceptable?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15) Are all sample containers appropriate for analytical requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16) Is there an Hg-1631 trip blank present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
17) Is there a VOA trip blank present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
18) Were all samples received within hold time?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

NA indicates Not Applicable

#### Chain of Custody Related Remarks

#### Client Contact Remarks

#### Shipping Containers

Cooler Id	Temp (°C)	Temp Criteria (°C)	Rad (µR/Hr)	Custody Seal Intact?
4716	2.8	NA	14	N/A

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

Client must contact an ACZ Project Manager if analysis should not proceed for samples received outside of their thermal preservation acceptance criteria.

North Park Engineering & Consulting, Inc  
Markus Production

ACZ Project ID: L53948

Date Received: 08/16/2019 08:10

Received By:

Date Printed: 8/19/2019

<sup>1</sup> The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub> preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

Report to:

Name: Randy Miller  
Company: North Park Engineering  
E-mail: randy@npeng.com

Address: PO Box 395  
Walden, CO 80480  
Telephone: 970-218-4974

**Copy of Report to:**

Name: Mark Brown  
Company: Markus Production

E-mail: mark@markusproduction.com  
Telephone: 720-350-8858

**Invoice to:**

Name:	Randy Miller
Company:	North Park Engineering
E-mail:	randy@npeng.com

Address: PO Box 325  
Walden, CO 80480  
Telephone: 970-218-4974

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses?

YES	
NO	<input checked="" type="checkbox"/>

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified

**Are samples for SDWA Compliance Monitoring?**

**Yes**

**No**

If yes, please include state forms. Results will be reported to PQL for Colorado.

Sampler's Name: Randall Miller Sampler's Site Information State CO Zip code 80480 Time Zone MTN

\*Sampler's Signature: Ronald Miller

"I attest to the authenticity and validity of this sample. I understand that intentionally mislabeling the time/date/location or tampering with the sample in anyway, is considered fraud and punishable by State Law.

ANALYSES REQUESTED (attach list or use quote number)

## PROJECT INFORMATION

Quote #: BTX TPH  
PO#: Markus Production  
Reporting state for compliance testing: \_\_\_\_\_  
Check box if samples include NRC licensed material? ☐

# of Containers

HDL-XLS

### SAMPLE IDENTIFICATION

DATE:TIME

## Matrix

1.	Timber Pit 1 North	8/15/19 15:30	SO
2.	Timber Pit 1 South	8/15/19 15:40	SO
3.	Timber Pit 1 West	8/15/19 15:50	SO
4.	Overflow Pit 2 Bottom	8/15/19 16:00	SO
5.	Overflow Pit 2 West	8/15/19 16:10	SO
6.	Spill South	8/15/19 16:20	SO
	Pit Water	8/15/19 17:00	SO

<del>WENT</del>	26	X
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Matrix	SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)
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## REMARKS

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:

DATE:TIME

RECEIVED BY:

DATE:TIME

*Randall M. Mc*

8/16/19 5:30

22C

8-16-19 08:02