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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Jaff Duke
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600 N. Marienfeld
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Midland, TX, 79701

Report Date: November 18, 2014

Work Order: 14111250

Project Location: NM
Project Name: Carrington No. 7
Project Number: Carrington No. 7

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
379329	NE Comp (Pre) @ 2'	soil	2014-11-11	09:35	2014-11-12
379330	SW Comp (Pre) @ 2'	soil	2014-11-11	10:00	2014-11-12
379331	South Side Comp (Post)	soil	2014-11-11	10:11	2014-11-12
379332	North Side Comp (Post)	soil	2014-11-11	10:25	2014-11-12
379333	East Side Comp (Post)	soil	2014-11-11	10:40	2014-11-12
379334	West Side Comp (Post)	soil	2014-11-11	10:50	2014-11-12
379335	Central Comp (Post)	soil	2014-11-11	11:05	2014-11-12

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

Dr. Blair Leftwich, Director
James Taylor, Assistant Director
Brian Pellam, Operations Manager

Report Contents

Case Narrative

Samples for project Carrington No. 7 were received by TraceAnalysis, Inc. on 2014-11-12 and assigned to work order 14111250. Samples for work order 14111250 were received intact at a temperature of 20.7 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	99121	2014-11-14 at 11:15	117234	2014-11-14 at 11:15
Chloride (Titration)	SM 4500-Cl B	99098	2014-11-14 at 11:00	117213	2014-11-14 at 12:52
TPH DRO - NEW	S 8015 D	99060	2014-11-13 at 14:17	117188	2014-11-14 at 08:28
TPH GRO	S 8015 D	99121	2014-11-14 at 11:15	117253	2014-11-14 at 11:15

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14111250 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 379329 - NE Comp (Pre) @ 2'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		6	2.14	mg/Kg	1	2.00	107	66.2 - 120
4-Bromofluorobenzene (4-BFB)		6	2.16	mg/Kg	1	2.00	108	59.5 - 120

Sample: 379329 - NE Comp (Pre) @ 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**193**	mg/Kg	5	4.00

Sample: 379329 - NE Comp (Pre) @ 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO		5	**1030**	mg/Kg	1	50.0

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	Qsr	Qsr		150	mg/Kg	1	100	150	70 - 130

Sample: 379329 - NE Comp (Pre) @ 2'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3	2.21	mg/Kg	1	2.00	110	73 - 122
4-Bromofluorobenzene (4-BFB)		3	1.90	mg/Kg	1	2.00	95	74.6 - 120

Sample: 379330 - SW Comp (Pre) @ 2'

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	6	2.50	mg/Kg	1	2.00	125	66.2 - 120
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr	6	2.51	mg/Kg	1	2.00	126	59.5 - 120

Sample: 379330 - SW Comp (Pre) @ 2'

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Chloride			**338**	mg/Kg	5	4.00

Sample: 379330 - SW Comp (Pre) @ 2'

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			108	mg/Kg	1	100	108	70 - 130

Sample: 379330 - SW Comp (Pre) @ 2'

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	3	2.62	mg/Kg	1	2.00	131	73 - 122
4-Bromofluorobenzene (4-BFB)			3	2.22	mg/Kg	1	2.00	111	74.6 - 120

Sample: 379331 - South Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200		mg/Kg	1	0.0200
Toluene	Jb,Qr	1,2,3,4,6	<0.0200		mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200		mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200		mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr 6	2.43	mg/Kg	1	2.00	122	66.2 - 120
4-Bromofluorobenzene (4-BFB)	Qsr	Qsr 6	2.45	mg/Kg	1	2.00	122	59.5 - 120

Sample: 379331 - South Side Comp (Post)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	U		<20.0		mg/Kg	5	4.00

Sample: 379331 - South Side Comp (Post)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
DRO	U	5	<50.0		mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			109	mg/Kg	1	100	109	70 - 130

Sample: 379331 - South Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	3	2.55	mg/Kg	1	2.00	128	73 - 122
4-Bromofluorobenzene (4-BFB)			3	2.15	mg/Kg	1	2.00	108	74.6 - 120

Sample: 379332 - North Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	6	2.44	mg/Kg	1	2.00	122	66.2 - 120
4-Bromofluorobenzene (4-BFB)			6	2.39	mg/Kg	1	2.00	120	59.5 - 120

Sample: 379332 - North Side Comp (Post)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 379332 - North Side Comp (Post)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			106	mg/Kg	1	100	106	70 - 130

Sample: 379332 - North Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	3	2.50	mg/Kg	1	2.00	125	73 - 122
4-Bromofluorobenzene (4-BFB)		3	2.04	mg/Kg	1	2.00	102	74.6 - 120

Sample: 379333 - East Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		6	2.27	mg/Kg	1	2.00	114	66.2 - 120
4-Bromofluorobenzene (4-BFB)		6	2.27	mg/Kg	1	2.00	114	59.5 - 120

Sample: 379333 - East Side Comp (Post)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride	U		<20.0	mg/Kg	5	4.00

Sample: 379333 - East Side Comp (Post)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	U	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			109	mg/Kg	1	100	109	70 - 130

Sample: 379333 - East Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3	2.36	mg/Kg	1	2.00	118	73 - 122
4-Bromofluorobenzene (4-BFB)		3	1.95	mg/Kg	1	2.00	98	74.6 - 120

Sample: 379334 - West Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Xylene	Jb,Qr	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		6	2.20	mg/Kg	1	2.00	110	66.2 - 120
4-Bromofluorobenzene (4-BFB)		6	2.16	mg/Kg	1	2.00	108	59.5 - 120

Sample: 379334 - West Side Comp (Post)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
Chloride			**242**	mg/Kg	5	4.00

Sample: 379334 - West Side Comp (Post)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
DRO	U	5	<50.0	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			106	mg/Kg	1	100	106	70 - 130

Sample: 379334 - West Side Comp (Post)

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3	2.28	mg/Kg	1	2.00	114	73 - 122
4-Bromofluorobenzene (4-BFB)		3	1.89	mg/Kg	1	2.00	94	74.6 - 120

Sample: 379335 - Central Comp (Post)

Laboratory:	Lubbock				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	117234	Date Analyzed:	2014-11-14	Analyzed By:	JS
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	Result	RL Units	Dilution	RL
Benzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Toluene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200
Ethylbenzene	Qr,U	1,2,3,4,6	<0.0200	mg/Kg	1	0.0200

continued ...

sample 379335 continued . . .

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Xylene	Jb,Qr	1,2,3,4,6	<0.0200		mg/Kg	1	0.0200

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		6	2.37	mg/Kg	1	2.00	118	66.2 - 120
4-Bromofluorobenzene (4-BFB)		6	2.34	mg/Kg	1	2.00	117	59.5 - 120

Sample: 379335 - Central Comp (Post)

Laboratory:	Midland				
Analysis:	Chloride (Titration)	Analytical Method:	SM 4500-Cl B	Prep Method:	N/A
QC Batch:	117213	Date Analyzed:	2014-11-14	Analyzed By:	MM
Prep Batch:	99098	Sample Preparation:	2014-11-14	Prepared By:	MM

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
Chloride	U		<20.0		mg/Kg	5	4.00

Sample: 379335 - Central Comp (Post)

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	S 8015 D	Prep Method:	N/A
QC Batch:	117188	Date Analyzed:	2014-11-14	Analyzed By:	SC
Prep Batch:	99060	Sample Preparation:	2014-11-13	Prepared By:	SC

Parameter	Flag	Cert	Result	RL	Units	Dilution	RL
DRO	U	5	<50.0		mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			109	mg/Kg	1	100	109	70 - 130

Sample: 379335 - Central Comp (Post)

Laboratory:	Lubbock				
Analysis:	TPH GRO	Analytical Method:	S 8015 D	Prep Method:	S 5035
QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	Sample Preparation:	2014-11-14	Prepared By:	MT

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1,2,3,4	<4.00	mg/Kg	1	4.00

Surrogate		Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	Qsr	Qsr	3	2.50	mg/Kg	1	2.00	125	73 - 122
4-Bromofluorobenzene (4-BFB)			3	2.01	mg/Kg	1	2.00	100	74.6 - 120

Method Blanks

Method Blank (1) QC Batch: 117188

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC
Prep Batch: 99060 | QC Preparation: 2014-11-13 | Prepared By: SC

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		5	<7.41	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			103	mg/Kg	1	100	103	70 - 130

Method Blank (1) QC Batch: 117213

QC Batch: 117213 | Date Analyzed: 2014-11-14 | Analyzed By: MM
Prep Batch: 99098 | QC Preparation: 2014-11-14 | Prepared By: MM

Parameter	Flag	Cert	MDL Result	Units	RL
Chloride			<3.85	mg/Kg	4

Method Blank (1) QC Batch: 117234

QC Batch: 117234 | Date Analyzed: 2014-11-14 | Analyzed By: JS
Prep Batch: 99121 | QC Preparation: 2014-11-14 | Prepared By: JS

Parameter	Flag	Cert	MDL Result	Units	RL
Benzene		1,2,3,4,6	0.00540	mg/Kg	0.02
Toluene		1,2,3,4,6	0.00420	mg/Kg	0.02
Ethylbenzene		1,2,3,4,6	<0.00283	mg/Kg	0.02
Xylene		1,2,3,4,6	0.0103	mg/Kg	0.02

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		6	1.99	mg/Kg	1	2.00	100	66.2 - 120

continued . . .

method blank continued ...

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		6	1.92	mg/Kg	1	2.00	96	59.5 - 120

Method Blank (1) QC Batch: 117253

QC Batch:	117253	Date Analyzed:	2014-11-14	Analyzed By:	MT
Prep Batch:	99121	QC Preparation:	2014-11-14	Prepared By:	JS

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1,2,3,4	<0.217	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		3	2.01	mg/Kg	1	2.00	100	73 - 122
4-Bromofluorobenzene (4-BFB)		3	1.69	mg/Kg	1	2.00	84	74.6 - 120

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC
Prep Batch: 99060 | QC Preparation: 2014-11-13 | Prepared By: SC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		5	261	mg/Kg	1	250	<7.41	104	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		5	250	mg/Kg	1	250	<7.41	100	70 - 130	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	112	109	mg/Kg	1	100	112	109	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 117213 | Date Analyzed: 2014-11-14 | Analyzed By: MM
Prep Batch: 99098 | QC Preparation: 2014-11-14 | Prepared By: MM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2460	mg/Kg	5	2500	<19.2	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2660	mg/Kg	5	2500	<19.2	106	85 - 115	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 117234 | Date Analyzed: 2014-11-14 | Analyzed By: JS
Prep Batch: 99121 | QC Preparation: 2014-11-14 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,6	1.95	mg/Kg	1	2.00	0.0054	97	69.3 - 120
Toluene		1,2,3,4,6	2.06	mg/Kg	1	2.00	0.0042	103	70.5 - 120
Ethylbenzene		1,2,3,4,6	2.10	mg/Kg	1	2.00	<0.00283	105	70.6 - 120
Xylene		1,2,3,4,6	6.30	mg/Kg	1	6.00	0.0103	105	70.7 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene [1]	Qr	Qr 1,2,3,4,6	1.47	mg/Kg	1	2.00	0.0054	73	69.3 - 120	28	20
Toluene	Qr	Qr 1,2,3,4,6	1.57	mg/Kg	1	2.00	0.0042	78	70.5 - 120	27	20
Ethylbenzene	Qr	Qr 1,2,3,4,6	1.59	mg/Kg	1	2.00	<0.00283	80	70.6 - 120	28	20
Xylene	Qr	Qr 1,2,3,4,6	4.79	mg/Kg	1	6.00	0.0103	80	70.7 - 120	27	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	6	2.17	1.61	mg/Kg	1	2.00	108	80	66.2 - 120
4-Bromofluorobenzene (4-BFB)	6	2.09	1.60	mg/Kg	1	2.00	104	80	59.5 - 120

Laboratory Control Spike (LCS-1)

QC Batch: 117253 | Date Analyzed: 2014-11-14 | Analyzed By: MT
Prep Batch: 99121 | QC Preparation: 2014-11-14 | Prepared By: JS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1,2,3,4	17.7	mg/Kg	1	20.0	<0.217	88	60.1 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1,2,3,4	20.3	mg/Kg	1	20.0	<0.217	102	60.1 - 120	14	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued . . .

Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	[3]	1.79	1.91	mg/Kg	1	2.00	90	96	73 - 122
4-Bromofluorobenzene (4-BFB)	[3]	1.82	1.93	mg/Kg	1	2.00	91	96	74.6 - 120

Matrix Spikes

Matrix Spike (MS-1) Spiked Sample: 379247

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC
Prep Batch: 99060 | QC Preparation: 2014-11-13 | Prepared By: SC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		[5]	227	mg/Kg	1	250	<7.41	91	70 - 130

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO		[5]	207	mg/Kg	1	250	<7.41	83	70 - 130	9	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	102	98.3	mg/Kg	1	100	102	98	70 - 130

Matrix Spike (MS-1) Spiked Sample: 379554

QC Batch: 117213 | Date Analyzed: 2014-11-14 | Analyzed By: MM
Prep Batch: 99098 | QC Preparation: 2014-11-14 | Prepared By: MM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride			2220	mg/Kg	5	2500	<19.2	89	78.9 - 121

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride			2220	mg/Kg	5	2500	<19.2	89	78.9 - 121	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 379247

QC Batch: 117234 | Date Analyzed: 2014-11-14 | Analyzed By: JS
Prep Batch: 99121 | QC Preparation: 2014-11-14 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene		1,2,3,4,6	1.99	mg/Kg	1	2.00	<0.00487	100	63.6 - 120
Toluene		1,2,3,4,6	2.13	mg/Kg	1	2.00	0.0043	106	67.8 - 128
Ethylbenzene		1,2,3,4,6	2.17	mg/Kg	1	2.00	<0.00283	108	69.5 - 136
Xylene		1,2,3,4,6	6.52	mg/Kg	1	6.00	0.0079	108	69.3 - 139

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene		1,2,3,4,6	1.93	mg/Kg	1	2.00	<0.00487	96	63.6 - 120	3	20
Toluene		1,2,3,4,6	2.09	mg/Kg	1	2.00	0.0043	104	67.8 - 128	2	20
Ethylbenzene		1,2,3,4,6	2.14	mg/Kg	1	2.00	<0.00283	107	69.5 - 136	1	20
Xylene		1,2,3,4,6	6.42	mg/Kg	1	6.00	0.0079	107	69.3 - 139	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	6	2.16	2.09	mg/Kg	1	2	108	104	66.2 - 120
4-Bromofluorobenzene (4-BFB)	6	2.16	2.14	mg/Kg	1	2	108	107	59.5 - 120

Matrix Spike (MS-1) Spiked Sample: 379247

QC Batch: 117253 | Date Analyzed: 2014-11-14 | Analyzed By: MT
Prep Batch: 99121 | QC Preparation: 2014-11-14 | Prepared By: JS

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1,2,3,4	18.8	mg/Kg	1	20.0	<0.217	94	40.3 - 120

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO		1,2,3,4	19.9	mg/Kg	1	20.0	<0.217	100	40.3 - 120	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued . . .

matrix spikes continued . . .

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	3	1.97	2.04	mg/Kg	1	2	98	102	73 - 122
4-Bromofluorobenzene (4-BFB)	3	2.06	2.12	mg/Kg	1	2	103	106	74.6 - 120

Calibration Standards

Standard (CCV-1)

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		5	mg/Kg	250	234	94	80 - 120	2014-11-14

Standard (CCV-2)

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		5	mg/Kg	250	264	106	80 - 120	2014-11-14

Standard (CCV-3)

QC Batch: 117188 | Date Analyzed: 2014-11-14 | Analyzed By: SC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		5	mg/Kg	250	256	102	80 - 120	2014-11-14

Standard (ICV-1)

QC Batch: 117213 | Date Analyzed: 2014-11-14 | Analyzed By: MM

Param	Flag	Cert	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2014-11-14

Standard (CCV-1)

QC Batch: 117213 Date Analyzed: 2014-11-14 Analyzed By: MM

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride			mg/Kg	100	100	100	85 - 115	2014-11-14

Standard (CCV-1)

QC Batch: 117234 Date Analyzed: 2014-11-14 Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1,2,3,4,6	mg/kg	0.100	0.101	101	80 - 120	2014-11-14
Toluene		1,2,3,4,6	mg/kg	0.100	0.0977	98	80 - 120	2014-11-14
Ethylbenzene		1,2,3,4,6	mg/kg	0.100	0.0976	98	80 - 120	2014-11-14
Xylene		1,2,3,4,6	mg/kg	0.300	0.293	98	80 - 120	2014-11-14

Standard (CCV-2)

QC Batch: 117234 Date Analyzed: 2014-11-14 Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1,2,3,4,6	mg/kg	0.100	0.0980	98	80 - 120	2014-11-14
Toluene		1,2,3,4,6	mg/kg	0.100	0.0989	99	80 - 120	2014-11-14
Ethylbenzene		1,2,3,4,6	mg/kg	0.100	0.0972	97	80 - 120	2014-11-14
Xylene		1,2,3,4,6	mg/kg	0.300	0.291	97	80 - 120	2014-11-14

Standard (CCV-3)

QC Batch: 117234 Date Analyzed: 2014-11-14 Analyzed By: JS

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		1,2,3,4,6	mg/kg	0.100	0.0959	96	80 - 120	2014-11-14

continued ...

standard continued . . .

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Toluene		1,2,3,4,6	mg/kg	0.100	0.0975	98	80 - 120	2014-11-14
Ethylbenzene		1,2,3,4,6	mg/kg	0.100	0.0972	97	80 - 120	2014-11-14
Xylene		1,2,3,4,6	mg/kg	0.300	0.291	97	80 - 120	2014-11-14

Standard (CCV-1)

QC Batch: 117253 Date Analyzed: 2014-11-14 Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1,2,3,4	mg/Kg	1.00	1.01	101	80 - 120	2014-11-14

Standard (CCV-2)

QC Batch: 117253 Date Analyzed: 2014-11-14 Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1,2,3,4	mg/Kg	1.00	0.918	92	80 - 120	2014-11-14

Standard (CCV-3)

QC Batch: 117253 Date Analyzed: 2014-11-14 Analyzed By: MT

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1,2,3,4	mg/Kg	1.00	1.12	112	80 - 120	2014-11-14

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	PJLA	L14-93	Lubbock
2	Kansas	Kansas E-10317	Lubbock
3	LELAP	LELAP-02003	Lubbock
4	NELAP	T104704219-14-10	Lubbock
5	NELAP	T104704392-14-8	Midland
6		2014-018	Lubbock

Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less then ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
MI1	Split peak or shoulder peak
MI2	Instrument software did not integrate
MI3	Instrument software misidentified the peak
MI4	Instrument software integrated improperly
MI5	Baseline correction
Qc	Calibration check outside of laboratory limits.
Qr	RPD outside of laboratory limits
Qs	Spike recovery outside of laboratory limits.

F	Description
Qsr	Surrogate recovery outside of laboratory limits.
U	The analyte is not detected above the SDL

Result Comments

1 LCS/LCSD outside RPD limits. Use MS/MSD to show analysis was performed correctly.

Attachments

The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

LAB Order ID # 14111250

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Nadel & Gussman Permian — Phone #:

Address: (Street, City, Zip) 601 N. Marienfeld St. #508, Midland, TX 79701 — Fax #:

Contact Person: Jeff Duke — E-mail:

Invoice to: (If different from above) — Carrington State #7

Project #: Sellhead Area Discharge — Project Name:

Project Location (including state): — Sampler Signature:

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
	Pre-remediation	1			X										
329329	NE Comp @ 2'	1			X									11/11/14	0935
330	SW Comp @ 2'	1			X									11/11/14	1000
	Post Excavation														
331	South Side Comp	1			X									11/11/14	1011
332	North " "	1			X									11/11/14	1025
333	East " "	1			X									11/11/14	1040
334	West " "	1			X									11/11/14	1050
335	Central Comp.	1			X									11/11/14	1105

ANALYSIS REQUEST	Turn Around Time if different from standard	Hold
MTBE 8021 / 602 / 8260 / 624		
BTEX 8021 / 602 / 8260 / 624	X	
TPH 418.1 / TX1005 / TX1005 Ext(C35)		
TPH 8015 GRO / DRO / TVHC	X	
PAH 8270 / 625		
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7		
TCLP Metals Ag As Ba Cd Cr Pb Se Hg		
TCLP Volatiles		
TCLP Semi Volatiles		
TCLP Pesticides		
RCI		
GC/MS Vol. 8260 / 624		
GC/MS Semi. Vol. 8270 / 625		
PCB's 8082 / 608		
Pesticides 8081 / 608		
BOD, TSS, pH		
Moisture Content		
Cl, F, SO_4, NO_3-N, NO_2-N, PO_4-P, Alkalinity	X	
Na, Ca, Mg, K, TDS, EC		

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
		11/12/14	1422		TA	11/12/14	14:45	INST 1.4 °C OBS 20.8 °C COR 20.7 °C
								INST ____ °C OBS ____ °C COR ____ °C
								INST ____ °C OBS ____ °C COR ____ °C

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
Log-in-Review ____

REMARKS: Normal

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry

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