

AP - 17

STAGE 2 WORKPLANS

Date:

10-17-13

Hansen, Edward J., EMNRD

From: Camille Bryant <cbryant@novatraining.cc>
Sent: Thursday, October 17, 2013 2:08 PM
To: Hansen, Edward J., EMNRD
Cc: jpdann@paalp.com
Subject: Plains TNM 97-17 Release Site (AP-017)
Attachments: 10813 Report.pdf

Mr. Hansen,

As per our phone conversation on October 7, 2013, regarding soil activities to be conducted at the Plains TNM 97-17 Release Site (AP-017), Nova Safety & Environmental, on behalf of Plains, purposes to apply three (3) feet of soil from the surrounding area to the surface of the previously backfilled excavation. The native sand dunes surrounding the site will be utilized to apply the additional three (3) feet of cover to the excavated area. A soil sample (Background) was collected from the native soil and submitted to TraceAnalysis, Inc. for TPH analysis. Laboratory analytical results indicated the soil sample exhibited a TPH concentration of 52.6 mg/Kg. The laboratory report is attached. NOVA will commence with the described activities on Monday, October 21. On completion of soil activities the disturbed areas will be re-vegetated with a seed mixture approved by the landowner. Please contact me with any questions.

Thank you,

Camille Bryant
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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Camille Bryant
Nova Safety & Environmental
2057 Commerce St.
Midland, TX, 79703

Report Date: October 17, 2013

Work Order: 13100921



Project Location: Eunice, NM
Project Name: 97-17
Project Number: TNM 97-17
SRS #: TNM 97-17

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
343545	Background	soil	2013-10-08	11:00	2013-10-09

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.

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Report Contents

Case Narrative	3
Analytical Report	4
Sample 343545 (Background)	4
Method Blanks	5
QC Batch 105913 - Method Blank (1)	5
QC Batch 105994 - Method Blank (1)	5
Laboratory Control Spikes	6
QC Batch 105913 - LCS (1)	6
QC Batch 105994 - LCS (1)	6
QC Batch 105913 - MS (1)	7
QC Batch 105994 - MS (1)	7
Calibration Standards	8
QC Batch 105913 - CCV (1)	8
QC Batch 105913 - CCV (2)	8
QC Batch 105994 - CCV (1)	8
QC Batch 105994 - CCV (2)	8
QC Batch 105994 - CCV (3)	8
QC Batch 105994 - CCV (4)	9
Appendix	10
Report Definitions	10
Laboratory Certifications	10
Standard Flags	10
Attachments	10

Case Narrative

Samples for project 97-17 were received by TraceAnalysis, Inc. on 2013-10-09 and assigned to work order 13100921. Samples for work order 13100921 were received intact at a temperature of 5.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
TPH DRO - NEW	S 8015 D	89771	2013-10-15 at 12:00	105994	2013-10-16 at 11:21
TPH GRO	S 8015 D	89670	2013-10-11 at 08:40	105913	2013-10-11 at 06:15

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 13100921 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.

Report Date: October 17, 2013
TNM 97-17

Work Order: 13100921
97-17

Page Number: 4 of 11
Eunice, NM

Analytical Report

Sample: 343545 - Background

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	N/A
Analysis:	TPH DRO - NEW	Date Analyzed:	2013-10-16	Analyzed By:	KC
QC Batch:	105994	Sample Preparation:	2013-10-15	Prepared By:	KC
Prep Batch:	89771				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
DRO	B	1	52.6	mg/Kg	1	50.0

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			118	mg/Kg	1	100	118	76.3 - 192.6

Sample: 343545 - Background

Laboratory:	Midland	Analytical Method:	S 8015 D	Prep Method:	S 5035
Analysis:	TPH GRO	Date Analyzed:	2013-10-11	Analyzed By:	AK
QC Batch:	105913	Sample Preparation:	2013-10-11	Prepared By:	AK
Prep Batch:	89670				

Parameter	Flag	Cert	RL Result	Units	Dilution	RL
GRO	U	1	<4.00	mg/Kg	1	4.00

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			1.63	mg/Kg	1	2.00	82	70 - 130
4-Bromofluorobenzene (4-BFB)			2.53	mg/Kg	1	2.00	126	70 - 130

Method Blanks

Method Blank (1) QC Batch: 105913

QC Batch: 105913
Prep Batch: 89670

Date Analyzed: 2013-10-11
QC Preparation: 2013-10-11

Analyzed By: AK
Prepared By: AK

Parameter	Flag	Cert	MDL Result	Units	RL
GRO		1	<2.32	mg/Kg	4

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)			2.01	mg/Kg	1	2.00	100	70 - 130
4-Bromofluorobenzene (4-BFB)			2.31	mg/Kg	1	2.00	116	70 - 130

Method Blank (1) QC Batch: 105994

QC Batch: 105994
Prep Batch: 89771

Date Analyzed: 2013-10-16
QC Preparation: 2013-10-15

Analyzed By: KC
Prepared By: KC

Parameter	Flag	Cert	MDL Result	Units	RL
DRO		1	10.4	mg/Kg	50

Surrogate	Flag	Cert	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane			95.2	mg/Kg	1	100	95	64.1 - 164.4

Report Date: October 17, 2013
TNM 97-17

Work Order: 13100921
97-17

Page Number: 6 of 11
Eunice, NM

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 105913
Prep Batch: 89670

Date Analyzed: 2013-10-11
QC Preparation: 2013-10-11

Analyzed By: AK
Prepared By: AK

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	19.6	mg/Kg	1	20.0	<2.32	98	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
GRO		1	18.6	mg/Kg	1	20.0	<2.32	93	70 - 130	5	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)	2.03	1.92	mg/Kg	1	2.00	102	96	70 - 130
4-Bromofluorobenzene (4-BFB)	2.14	2.28	mg/Kg	1	2.00	107	114	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 105994
Prep Batch: 89771

Date Analyzed: 2013-10-16
QC Preparation: 2013-10-15

Analyzed By: KC
Prepared By: KC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	267	mg/Kg	1	250	10.4	103	53.8 - 129

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		1	280	mg/Kg	1	250	10.4	108	53.8 - 129	5	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	107	107	mg/Kg	1	100	107	107	61.3 - 170.4

Report Date: October 17, 2013
TNM 97-17

Work Order: 13100921
97-17

Page Number: 7 of 11
Eunice, NM

Matrix Spike (MS-1) Spiked Sample:

QC Batch: 105913
Prep Batch: 89670

Date Analyzed: 2013-10-11
QC Preparation: 2013-10-11

Analyzed By: AK
Prepared By: AK

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO		1	19.4	mg/Kg	1	20.0	<2.32	97	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
GRO		1	20.4	mg/Kg	1	20.0	<2.32	102	70 - 130	5	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)	2.31	2.04	mg/Kg	1	2	116	102	70 - 130
4-Bromofluorobenzene (4-BFB)	2.55	2.24	mg/Kg	1	2	128	112	70 - 130

Matrix Spike (MS-1) Spiked Sample: 343545

QC Batch: 105994
Prep Batch: 89771

Date Analyzed: 2013-10-16
QC Preparation: 2013-10-15

Analyzed By: KC
Prepared By: KC

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO		1	304	mg/Kg	1	250	52.6	100	29 - 168.5

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		1	284	mg/Kg	1	250	52.6	92	29 - 168.5	7	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	116	112	mg/Kg	1	100	116	112	59.5 - 168.9

Calibration Standards

Standard (CCV-1)

QC Batch: 105913

Date Analyzed: 2013-10-11

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	1.02	102	80 - 120	2013-10-11

Standard (CCV-2)

QC Batch: 105913

Date Analyzed: 2013-10-11

Analyzed By: AK

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		1	mg/Kg	1.00	0.955	96	80 - 120	2013-10-11

Standard (CCV-1)

QC Batch: 105994

Date Analyzed: 2013-10-16

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	268	107	80 - 120	2013-10-16

Standard (CCV-2)

QC Batch: 105994

Date Analyzed: 2013-10-16

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	276	110	80 - 120	2013-10-16

Report Date: October 17, 2013
TNM 97-17

Work Order: 13100921
97-17

Page Number: 9 of 11
Eunice, NM

Standard (CCV-3)

QC Batch: 105994

Date Analyzed: 2013-10-16

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	277	111	80 - 120	2013-10-16

Standard (CCV-4)

QC Batch: 105994

Date Analyzed: 2013-10-16

Analyzed By: KC

Param	Flag	Cert	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		1	mg/Kg	250	285	114	80 - 120	2013-10-16

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	NELAP	T104704392-12-4	Midland

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

Attachments

Report Date: October 17, 2013
TNM 97-17

Work Order: 13100921
97-17

Page Number: 11 of 11
Eunice, NM

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

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Invoice to: Plains
(If different from above)
Project #: TNM 97-17
Project Name: TNM 97-17
Project Location (including state): Lea Co., NM
Sampler Signature: Carmelle Brust

ANALYSIS REQUEST
(Circle or Specify Method No.)

[illegible]

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST
<i>Corinne D. Dyer</i>	<i>NOVA</i>	<i>10/9/13</i>	<i>13:24</i>	<i>Justin P. P.</i>	<i>NOVA</i>	<i>10/9/13</i>	<i>13:24</i>	OBS
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