QUESTION #16

ATTACHMENT #11

Magellan Midstream Partners, L.P.

Product/Water Transported to the Filter Press

Date	HMRI Drivers	HMRI Vehicles	Unloaded from Frac Tank	Product Transported	Loads	Estimated Gallons	Gallons per Filter Press Printouts	
							Ticket #	Estimated BBL's
12/15/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	N/A	
12/16/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	N/A	
12/19/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	11430	120
12/20/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	11434	119
12/21/2011	Jim Collins	Vacuum Truck (T-202) - Rinsed out VT @ FP	N/A	Rinsate		Unknown	N/A	
12/28/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	12002	120
12/29/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	11003	120
12/30/2011	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	11005	119
1/2/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	N/A	
1/3/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Diesel, Water Mixture	1	5,000	12006	250
1/4/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3980 & A3974	Gas, Diesel, Water Mixture	3	15,000	12008	240
1/5/2012	Cody Lang	Vacuum Truck (T-221)		Gas, Fuel, Water Mixture	1	2,700	12011	60
1/5/2012	Paul Martin	Vacuum Tanker (T-215/102)	VT T-202 & A3947	Gas, Diesel, Water Mixture	2	10,000	12012	138
1/6/2012	Cody Lang	Vacuum Truck (T-221)	A3947	Gas, Fuel, Water Mixture	1	2,500	12014	50
1/6/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	1	5,000	12015	240
1/9/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12018	138
1/10/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12021	230
1/11/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12022	239
1/12/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12023	115
1/16/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	N/A	
1/16/2012	Leonard Yearling	Vacuum Truck		Gas, Fuel, Water Mixture	1	3,000	12027	300
1/17/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12031	238
1/17/2012	Leonard Yearling	Vacuum Truck (T-208)		Gas, Fuel, Water Mixture	1	3,000	N/A	
1/18/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947 & A3980	Gas, Fuel, Water Mixture	2	10,000	12034	150
1/18/2012	Leonard Yearling	Vacuum Truck (T-208)		Gas, Fuel, Water Mixture	2	6,000	12036	185
1/19/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	N/A	
1/19/2012	Leonard Yearling	Vacuum Truck (T-202 / T-208)		Gas, Fuel, Water Mixture	2	6,000	12038	235
1/26/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12044	115
1/27/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12045	115
1/30/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12047	115
2/1/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12052	213
2/2/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12054	119

Magellan Midstream Partners, L.P.

Product/Water Transported to the Filter Press

Date	HMRI Drivers	HMRI Vehicles	Unloaded from Frac Tank	Product Transported	Loads	Estimated Gallons	Gallons per Filter Press Printouts	
							Ticket #	Estimated BBL's
2/3/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12056	110
2/6/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	N/A	
2/7/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12064	220
2/8/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12066	216
2/9/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	N/A	
2/10/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12070	
2/13/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12073	238
2/13/2012	Tim Hayes	Vacuum Truck (T-208)	3	Gas, Fuel, Water Mixture	1	2,500	12072	60
2/14/2012	Tim Hayes	Vacuum Truck (T-208)	3	Gas, Fuel, Water Mixture	2	5,000	12074	321
2/14/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	N/A	
2/15/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	N/A	
2/15/2012	Tim Hayes	Vacuum Truck (T-208)	2 & 3	Gas, Fuel, Water Mixture	2	5,000	12076	326
2/16/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12082	324
2/16/2012	Tim Hayes	Vacuum Truck (T-208)		Gas, Fuel, Water Mixture	2	5,000	N/A	
2/17/2012	Tim Hayes	Vacuum Truck (T-208)	2	Gas, Fuel, Water Mixture	2	5,000	12083	225
2/17/2012	Paul Martin	Vacuum Tanker (T-215/102)		Gas, Fuel, Water Mixture	1	50,000	N/A	
2/20/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3980	Gas, Fuel, Water Mixture	2	10,000	12089	105
2/20/2012	Tim Hayes	Vacuum Truck (T-208)	1	Gas, Fuel, Water Mixture	2	5,000	12088	120
2/21/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	N/A	
2/21/2012	Tim Hayes	Vacuum Truck (T-208)	1 & 2	Gas, Fuel, Water Mixture	2	5,000	12090	330
2/22/2012	Tim Hayes	Vacuum Truck (T-208)	2 & 3	Gas, Fuel, Water Mixture	2	5,000	N/A	
2/22/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12092	225
2/23/2012	Tim Hayes	Vacuum Truck (T-208)		Gas, Fuel, Water Mixture	1	2,500	12093	270
2/23/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979 & A3947	Gas, Fuel, Water Mixture	1	5,000	N/A	
2/27/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12096	210
2/28/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12097	216
2/29/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12098	116
3/1/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	N/A	
3/2/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12101	216
3/5/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12103	216
3/6/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12107	216
3/7/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12107	216
3/8/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947 & A3979	Gas, Fuel, Water Mixture	2	10,000	12110	216
3/9/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12112	108

Magellan Midstream Partners, L.P.

Product/Water Transported to the Filter Press

Date	HMRI Drivers	HMRI Vehicles	Unloaded from Frac Tank	Product Transported	Loads	Estimated Gallons	Gallons per Filter Press Printouts	
							Ticket #	Estimated BBL's
3/12/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12115	216
3/13/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12117	216
3/14/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12118	216
3/15/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12120	108
3/19/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12126	216
3/20/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12127	216
3/21/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12129	216
3/22/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12132	116
3/23/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	1	5,000	12133	116
3/26/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12135	216
3/27/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947	Gas, Fuel, Water Mixture	2	10,000	12139	216
3/28/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947 & A3979	Gas, Fuel, Water Mixture	2	10,000	12143	216
3/29/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947 & A3979	Gas, Fuel, Water Mixture	2	10,000	12146	216
3/30/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3947, A3979 & A3980	Gas, Fuel, Water Mixture	1	5,000	12147	108
4/2/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12151	119
4/3/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12153	216
4/4/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12154	214
4/5/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979 & A2563	Gas, Fuel, Water Mixture	2	10,000	12155	210
4/6/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	1	5,000	12159	105
4/9/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12160	110
4/10/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12161	110
4/11/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12162	110
4/12/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12165	206
4/13/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	1	5,000	12166	103
4/16/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12168	210
4/17/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12171	265
4/17/2012	Larry Kettler	Vacuum Truck (T-226)		Gas, Fuel, Water Mixture	1	2,500	N/A	
4/18/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563	Gas, Fuel, Water Mixture	2	10,000	12172	210
4/19/2012	Paul Martin	Vacuum Tanker (T-215/102)	A2563 & A3979	Gas, Fuel, Water Mixture	2	10,000	12175	210
4/20/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	12176	105
4/23/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12178	210
4/24/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12181	210
4/25/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	2	10,000	12175	219

Magellan Midstream Partners, L.P.

Product/Water Transported to the Filter Press

Date	HMRI Drivers	HMRI Vehicles	Unloaded from Frac Tank	Product Transported	Loads	Estimated Gallons	Gallons per Filter Press Printouts	
							Ticket #	Estimated BBL's
4/26/2012	Paul Martin	Vacuum Tanker (T-215/102)	A3979	Gas, Fuel, Water Mixture	1	5,000	N/A	
				Totals:	162	795,700		14,653
						Gallons Per Magellan's Filter Press Tickets (Based on 42 Gallons per Barrel):		***615,426***

Johnson County
Kansas

KANSAS DON'T SPOIL IT!

March 26, 2012

Mr. Brian Sieben
Environmental Specialist
Magellan Pipeline Company, L.P.
13424 West 98th Street, Lenexa, Kansas 66215

Re: Johnson County Industrial Solid Waste Disposal Authorization Number 12-114

Dear Mr. Sieben:

We are in receipt of your letter dated March 23, 2012, requesting to dispose of approximately 40 cubic yards per year of petroleum impacted material (peat and absorbent booms) from spill cleanup from Magellan Pipeline Company's #3-8" and #5-12" pipelines in Nemaha, Nebraska. Information you supplied indicated the waste is **non-hazardous**.

Approval is given to dispose of this waste at the Johnson County Landfill, Inc., operating under Kansas Permit 263 and Johnson County Permit No. 11-05, provided the following conditions are met:

1. **Approval to deliver the waste must be obtained from the landfill operator prior to transporting the waste to the landfill. The final decision on whether to accept or reject the waste rests with the landfill operator. Please call the Sales Department, 913-667-8791, to obtain approval. If the landfill operator refuses to accept this waste you should contact us to determine alternative disposal options.**

2. The waste must be transported separately to the landfill and be identified to the operator upon delivery.

3. Kansas Administrative Regulation 28-29-108(12) requires solid waste disposal facilities to maintain a log of commercial or industrial solid wastes received including sludges, barreled wastes and special wastes. The log shall indicate the source and quantity of waste and the disposal location. The industrial waste authorization number should be used as identification when entering the shipment into the log.

4. Sludges must be adequately containerized to prevent spillage of waste on roads and highways during transportation.

5. Operating standards for liquids restrictions as defined by K.A.R. 28-29-108 (k) prohibit the disposal of bulk or non-containerized liquid waste. Only residential containerized liquid wastes may be accepted at the landfill. "Liquid waste" means any waste material that is determined to contain "free liquids" as defined by method 9095A, revision 1, paint filter liquids test, as described in "test methods form evaluating solid waste, physical/chemical methods," EPA pub. No. SW-846, dated December, 1996. **For purposes of this disposal, all waste must be able to pass the paint filter liquids test at time of disposal.**

6. Use of petroleum contaminated soil as alternative daily cover at the landfill must meet the requirements set by the Kansas Department of Health and Environment which state that the concentrations of the following constituents must not be exceeded:
   - benzene, 9.8 mg/kg (total)
   - 1, 2 dichloroethane, 4.7 mg/kg (total)
   - lead, 400 mg/kg (total) if lead was required to be analyzed to obtain special waste authorization.

   The petroleum contaminated soil can only be stored and used as alternate daily cover on interior areas and slopes where all runoff is captured within the leachate collection system. Any soil contaminated with substances other than petroleum must be evaluated by KDHE and the Johnson County Department of Health and Environment on a case by case basis prior to approval as alternate daily cover.

7. Sludge from wastewater treatment plants must be dumped at the landfill working face and covered upon disposal either with six inches of soil or at least two feet of trash.

8. This authorization expires **March 26, 2013.** If the waste has not been taken to the landfill by this date, you must apply for a new authorization.

If you have any questions, please contact Betsy Livingston of this office.

Sincerely,

Betsy Betros, Environmental Division Director
Johnson County Department of Health and Environment

BB\BL\cjb
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c: Tony Guy, Kansas Department of Health and Environment
Betsy Livingston, Environmental Programs Manager
Mike Dale, Sales Department, Johnson County Landfill, Inc. - email
Kristy Williams, HazMat - fax

JOHNSON COUNTY ENVIRONMENTAL DEPARTMENT
11811 S. Sunset Drive, Suite #2700
Olathe, Kansas 66061
Phone: (913) 715-6900 Fax: (913) 715-6970
http://jced.jocogov.org

SPECIAL WASTE DISPOSAL REQUEST FORM

I. Waste Generator Information:

Company Name: Magellan Pipeline Company, L.P.

Contact Name: Brian Sieben Title: Environmental Specialist

Address: 13424 W. 98th Street

City, State, Zip: Lenexa, Kansas 66215 Telephone: (913) 310-7731

Email Address: brian.sieben@magellanlp.com

II. Cleanup Contractor Information (if different from above):

Company Name: Haz-Mat Response, Inc.

Contact Name: _____ Title: _____

Address: 1203C South Park Street

City, State, Zip: Olathe, Kansas 66061 Telephone: (913) 782-5151

Email Address: hazmat@haz-matresponse.com

III. Waste Characterization:

A. Name of Waste: Petroleum impacted material (peat and abosorbent boom) from spill cleanup

B. Location of Waste Generation

Nemaha, Nebraska

C. Description of Waste Generation Process:

Removal of petroleum products from the surface of a creek impacted by a 3rd party line strike of Magellan Pipeline Company's #3-8" and #5-12" pipelines in Nemaha County, NE

D. Physical State (Check one): 1. Solid X 2. Slurry _____ 3. Liquid _____ 4. Sludge _____

5. Other (describe) _____

pH N/A % Solids by Weight 100% Specific Gravity: N/A Free Fluid: Yes ____ No X

Odor Description: Mild Petroleum

Flash Point N/A use Pensky-Martins Closed Cup (ASTM D-93-77) or Setaflash Closed Tester (ASTM Standard D-3278-73)

E. Was the waste ever classified or listed as a hazardous waste under 40 CFR? Yes ____ No X

If yes, the previous waste I.D. number was _____

F. Chemical Composition: (attach any additional analysis with description of sampling and analytical methods, and all applicable Material Safety Data Sheets). Lab analysis cannot be older than one year to be used here. All analyses performed by or for the waste generator shall be performed in accordance with standard laboratory methods and performed by a laboratory certified by the Kansas Department of Health and Environment for the required parameters, utilizing Environmental Protection Agency approved methodologies, 40CFR136.

Major Components

	Weight %		Weight %
1.	Peat 0% - 50%	3.	
2.	Absorbent Boom 50% - 75%	4.	

G. Source of Chemical Data: Pace Analytical

IV. Disposal Rate:

Waste will be disposed of on the following basis:

A. Ongoing _____ with an average disposal rate per month of _____ (include units)
B. Intermittent X with an estimated quantity (per year) of 40 cubic yards (include units)
C. One time only _____ with an estimated quantity of _____ (include units)
D. If A or B, indicate the quantity for immediate disposal _____ (include units)

V. Transportation:

A. Container type used for transportation:
1. X bulk (20 cubic yards)
2. ____metal drum (_____ gallons)
3. ____cases, cartons (size, number/case_____)
4. ____fiber drums (_____ gallons)
5. Other, specify 20-cubic yard roll-off

B. Will the container used in transport be landfilled with the waste: Yes _____ No X

If no, specify 20-cu yrs Roll-off Box

VI. Certification:

I, the undersigned, submit this request to dispose of the named waste and certify that the waste named herein to the best of my knowledge is not hazardous waste as defined by the state(s) in which it is generated, transported, and/or stored, including the Kansas Hazardous Waste Management Regulations, and that the information supplied by me is correct. I also understand that if a disposal authorization is issued, it will be valid for only one (1) year from the date of issue.

* Signature of Waste Generator/Designated Representative, (e.g., cleanup contractor, consultant)

Brina Sieben — Print Name
Environmental Specialist — Title

Magellan Midstream Partners, L.P. — Company
3/21/12 — Date

Additional Comments:

*** This request MUST be signed or it cannot be considered.**

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

March 21, 2012

TREVOR GUSTAFSON
BURNS & MCDONNELL
9400 Ward Parkway
Kansas City, MO 64114

RE: Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Dear TREVOR GUSTAFSON:
Enclosed are the analytical results for sample(s) received by the laboratory on March 16, 2012. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Amended report revised 03/21/12 to correct Paint Filter result.

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

Sincerely,

Angie Brown

Angie.Brown@pacelabs.com
Project Manager

Enclosures

cc: Mr. Glen Ernstmann, Burns & McDonnell Waste Consultants
Mr. Rusty Parkhurst, Burns & McDonnell Waste Consultants

Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

CERTIFICATIONS

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Kansas Certification IDs
9608 Loiret Boulevard, Lenexa, KS 66219
A2LA Certification #: 2456.01
Arkansas Certification #: 05-008-0
Illinois Certification #: 001191
Iowa Certification #: 118
Kansas/NELAP Certification #: E-10116
Louisiana Certification #: 03055
Nevada Certification #: KS000212008A
Oklahoma Certification #: 9205/9935
Texas Certification #: T104704407-08-TX
Utah Certification #: 9135995665

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

SAMPLE SUMMARY

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60117508001	RO-1	Solid	03/16/12 09:45	03/16/12 14:37

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Pace Analytical Services, Inc.
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Lenexa, KS 66219
(913)599-5665

SAMPLE ANALYTE COUNT

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60117508001	RO-1	OA2	SDR	9
		EPA 6010	JDH	7
		EPA 7470	TDS	1
		OA1	JPF	1
		EPA 8260	JPF	10
		ASTM D2974-87	DWC	1
		EPA 9045	LAJ	1
		EPA 9095	OL	1

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Pace Analytical Services, Inc.
9608 Loiret Blvd.
Lenexa, KS 66219
(913)599-5665

ANALYTICAL RESULTS

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Sample: RO-1 **Lab ID: 60117508001** Collected: 03/16/12 09:45 Received: 03/16/12 14:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
OA2 GCS	Analytical Method: OA2 Preparation Method: OA2							
Diesel Fuel	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	68334-30-5	
Fuel Oil	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	68553-00-4	
Jet Fuel	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	94114-58-6	
Kerosene	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	8008-20-6	
Mineral Spirits	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	8030-30-6	
Motor Oil	ND	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10	64742-65-0	
Total Petroleum Hydrocarbons	**9770**	mg/kg	88.0	1	03/19/12 00:00	03/19/12 19:10		1e
Surrogates								
n-Tetracosane (S)	91	%	50-137	1	03/19/12 00:00	03/19/12 19:10	646-31-1	
p-Terphenyl (S)	105	%	41-129	1	03/19/12 00:00	03/19/12 19:10	92-94-4	
6010 MET ICP, TCLP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
	Leachate Method/Date: EPA 1311; 03/20/12 08:50							
Arsenic	ND	mg/L	0.50	1	03/20/12 09:55	03/20/12 16:05	7440-38-2	
Barium	ND	mg/L	2.5	1	03/20/12 09:55	03/20/12 16:05	7440-39-3	
Cadmium	ND	mg/L	0.050	1	03/20/12 09:55	03/20/12 16:05	7440-43-9	
Chromium	ND	mg/L	0.10	1	03/20/12 09:55	03/20/12 16:05	7440-47-3	
Lead	ND	mg/L	0.50	1	03/20/12 09:55	03/20/12 16:05	7439-92-1	
Selenium	ND	mg/L	0.50	1	03/20/12 09:55	03/20/12 16:05	7782-49-2	
Silver	ND	mg/L	0.10	1	03/20/12 09:55	03/20/12 16:05	7440-22-4	
7470 Mercury, TCLP	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
	Leachate Method/Date: EPA 1311; 03/20/12 08:50							
Mercury	ND	ug/L	2.0	1	03/20/12 12:30	03/20/12 15:30	7439-97-6	
OA1 Volatile Pet. Hydrocarbons	Analytical Method: OA1							
Gasoline Range Organics	**242**	mg/kg	23.7	1		03/20/12 11:22		
8260 MSV 5035A VOA	Analytical Method: EPA 8260							
Benzene	ND	ug/kg	119	1		03/20/12 11:22	71-43-2	
1,2-Dichloroethane	ND	ug/kg	119	1		03/20/12 11:22	107-06-2	
Ethylbenzene	ND	ug/kg	119	1		03/20/12 11:22	100-41-4	
n-Hexane	ND	ug/kg	119	1		03/20/12 11:22	110-54-3	
Toluene	ND	ug/kg	119	1		03/20/12 11:22	108-88-3	
Xylene (Total)	**151**	ug/kg	119	1		03/20/12 11:22	1330-20-7	
Surrogates								
Dibromofluoromethane (S)	99	%	68-129	1		03/20/12 11:22	1868-53-7	
Toluene-d8 (S)	91	%	81-121	1		03/20/12 11:22	2037-26-5	
4-Bromofluorobenzene (S)	93	%	75-131	1		03/20/12 11:22	460-00-4	
1,2-Dichloroethane-d4 (S)	101	%	77-131	1		03/20/12 11:22	17060-07-0	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**78.7**	%	0.50	1		03/19/12 00:00		

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ANALYTICAL RESULTS

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Sample: RO-1 **Lab ID: 60117508001** Collected: 03/16/12 09:45 Received: 03/16/12 14:37 Matrix: Solid

Results reported on a "dry-weight" basis

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
9045 pH Soil	Analytical Method: EPA 9045							
pH at 25 Degrees C	**5.5**	Std. Units	0.10	1		03/20/12 14:35		
9095 Paint Filter Liquid Test	Analytical Method: EPA 9095							
Free Liquids	**Negative**			1		03/20/12 15:30		

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: MERP/6120
QC Batch Method: EPA 7470
Analysis Method: EPA 7470
Analysis Description: 7470 Mercury TCLP
Associated Lab Samples: 60117508001

METHOD BLANK: 968210
Matrix: Water
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	ND	2.0	03/20/12 15:22	

LABORATORY CONTROL SAMPLE: 968211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	15	13.6	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 968212 968213

Parameter	Units	60117507001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	ND	15	15	11.9	11.4	79	76	75-125	5	19	

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: MPRP/17370
QC Batch Method: EPA 3010
Analysis Method: EPA 6010
Analysis Description: 6010 MET TCLP
Associated Lab Samples: 60117508001

METHOD BLANK: 968191
Matrix: Water
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.50	03/20/12 15:44	
Barium	mg/L	ND	2.5	03/20/12 15:44	
Cadmium	mg/L	ND	0.050	03/20/12 15:44	
Chromium	mg/L	ND	0.10	03/20/12 15:44	
Lead	mg/L	ND	0.50	03/20/12 15:44	
Selenium	mg/L	ND	0.50	03/20/12 15:44	
Silver	mg/L	ND	0.10	03/20/12 15:44	

LABORATORY CONTROL SAMPLE: 968192

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	1	0.92	92	80-120	
Barium	mg/L	1	0.96	96	80-120	
Cadmium	mg/L	1	0.92	92	80-120	
Chromium	mg/L	1	0.93	93	80-120	
Lead	mg/L	1	0.97	97	80-120	
Selenium	mg/L	1	0.92	92	80-120	
Silver	mg/L	.5	0.46	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 968193 968194

Parameter	Units	60117507001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	10	10	9.6	9.9	96	99	75-125	3	20	
Barium	mg/L	ND	10	10	11.6	11.8	97	99	75-125	2	20	
Cadmium	mg/L	ND	10	10	9.4	9.7	94	97	75-125	3	20	
Chromium	mg/L	ND	10	10	9.1	9.4	91	94	75-125	3	20	
Lead	mg/L	ND	10	10	9.2	9.4	91	93	75-125	2	20	
Selenium	mg/L	ND	10	10	9.6	9.9	96	99	75-125	3	20	
Silver	mg/L	ND	5	5	4.7	4.8	93	96	75-125	3	20	

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: MSV/44335
QC Batch Method: OA1
Associated Lab Samples: 60117508001

Analysis Method: OA1
Analysis Description: OA1 Volatile Pet. Hydrocarbon

METHOD BLANK: 968205
Matrix: Solid
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Gasoline Range Organics	mg/kg	ND	1.0	03/20/12 11:06	

LABORATORY CONTROL SAMPLE: 968206

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Gasoline Range Organics	mg/kg	4	4.5	113	69-131	

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: MSV/44334
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV 5035A Volatile Organics
Associated Lab Samples: 60117508001

METHOD BLANK: 968203
Matrix: Solid
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dichloroethane	ug/kg	ND	5.0	03/20/12 11:06	
Benzene	ug/kg	ND	5.0	03/20/12 11:06	
Ethylbenzene	ug/kg	ND	5.0	03/20/12 11:06	
n-Hexane	ug/kg	ND	5.0	03/20/12 11:06	
Toluene	ug/kg	ND	5.0	03/20/12 11:06	
Xylene (Total)	ug/kg	ND	5.0	03/20/12 11:06	
1,2-Dichloroethane-d4 (S)	%	91	77-131	03/20/12 11:06	
4-Bromofluorobenzene (S)	%	101	75-131	03/20/12 11:06	
Dibromofluoromethane (S)	%	98	68-129	03/20/12 11:06	
Toluene-d8 (S)	%	99	81-121	03/20/12 11:06	

LABORATORY CONTROL SAMPLE: 968204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dichloroethane	ug/kg	100	90.3	90	80-120	
Benzene	ug/kg	100	102	102	84-119	
Ethylbenzene	ug/kg	100	100	100	80-120	
n-Hexane	ug/kg	100	104	104	53-132	
Toluene	ug/kg	100	101	101	83-117	
Xylene (Total)	ug/kg	300	297	99	80-120	
1,2-Dichloroethane-d4 (S)	%			95	77-131	
4-Bromofluorobenzene (S)	%			97	75-131	
Dibromofluoromethane (S)	%			95	68-129	
Toluene-d8 (S)	%			97	81-121	

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: OEXT/32464 | Analysis Method: OA2
QC Batch Method: OA2 | Analysis Description: OA2 GCS
Associated Lab Samples: 60117508001

METHOD BLANK: 967998 | Matrix: Solid
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diesel Fuel	mg/kg	ND	19.3	03/19/12 18:13	
Fuel Oil	mg/kg	ND	19.3	03/19/12 18:13	
Jet Fuel	mg/kg	ND	19.3	03/19/12 18:13	
Kerosene	mg/kg	ND	19.3	03/19/12 18:13	
Mineral Spirits	mg/kg	ND	19.3	03/19/12 18:13	
Motor Oil	mg/kg	ND	19.3	03/19/12 18:13	
Total Petroleum Hydrocarbons	mg/kg	ND	19.3	03/19/12 18:13	
n-Tetracosane (S)	%	93	50-137	03/19/12 18:13	
p-Terphenyl (S)	%	98	41-129	03/19/12 18:13	

LABORATORY CONTROL SAMPLE: 967999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Diesel Fuel	mg/kg	455	421	93	66-138	
n-Tetracosane (S)	%			92	50-137	
p-Terphenyl (S)	%			92	41-129	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 968000 968001

Parameter	Units	60117507001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Diesel Fuel	mg/kg	ND	651	658	724	762	111	116	56-154	5	27	
n-Tetracosane (S)	%						86	89	50-137			
p-Terphenyl (S)	%						89	96	41-129			

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: PMST/7074
QC Batch Method: ASTM D2974-87
Analysis Method: ASTM D2974-87
Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 60117508001

METHOD BLANK: 967586
Matrix: Solid
Associated Lab Samples: 60117508001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	03/19/12 00:00	

SAMPLE DUPLICATE: 967587

Parameter	Units	60117381001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	26.1	26.6	2	20	

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: WET/34066
QC Batch Method: EPA 9045
Analysis Method: EPA 9045
Analysis Description: 9045 pH
Associated Lab Samples: 60117508001

SAMPLE DUPLICATE: 968262

Parameter	Units	60117508001 Result	Dup Result	RPD	Max RPD	Qualifiers
pH at 25 Degrees C	Std. Units	5.5	5.5	1	3	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

QC Batch: WET/34074
QC Batch Method: EPA 9095
Analysis Method: EPA 9095
Analysis Description: 9095 PAINT FILTER LIQUID TEST
Associated Lab Samples: 60117508001

SAMPLE DUPLICATE: 968505

Parameter	Units	60117507001 Result	Dup Result	RPD	Max RPD	Qualifiers
Free Liquids		Negative	Negative			

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QUALIFIERS

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

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

BATCH QUALIFIERS

Batch: MSV/44334

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

Batch: MSV/44335

[M5] A matrix spike/matrix spike duplicate was not performed for this batch due to insufficient sample volume.

ANALYTE QUALIFIERS

1e The sample does not match a profile of laboratory standards. Hydrocarbon fractions are present from the early diesel fuel to late motor oil range. Quantitation achieved using diesel fuel as a reference standard.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MAGELLAN - NEMAHA, NE
Pace Project No.: 60117508

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60117508001	**RO-1**	OA2	OEXT/32464	OA2	GCSV/12126
60117508001	**RO-1**	EPA 3010	MPRP/17370	EPA 6010	ICP/14799
60117508001	**RO-1**	EPA 7470	MERP/6120	EPA 7470	MERC/6085
60117508001	**RO-1**	OA1	MSV/44335		
60117508001	**RO-1**	EPA 8260	MSV/44334		
60117508001	**RO-1**	ASTM D2974-87	PMST/7074		
60117508001	**RO-1**	EPA 9045	WET/34066		
60117508001	**RO-1**	EPA 9095	WET/34074		

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Burns & McDonnell
SINCE 1898
021706 Form WCD-KC1

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell Engineering
9400 Ward Parkway
Kansas City, Missouri 64114
Phone: (816) 333-9400 Fax: (816) 822-3494

Attention: TREVOR GUSTAFSON

Laboratory: PACE
Address:
City/State/Zip:
Telephone:

Document Control No:
Lab. Reference No. or Episode No.:

Project Number: 65383

Client Name: MAGELLAN - NEMAHA, NE

Sample Number			Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type: Matrix			Number of Containers	Analysis						Remarks
Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas		BTEX + 1,2DCA	TPH DA-1	TPH DA-2	TCLP RCRA METALS	PAHS KIETER	pH	
	RO-1	—	—	—	—	—	3/16/12	0945		X		3	X	X	X	X	X	X	INGKUZLOGFU (ms) 117508

Sampler (signature): NATHAN KILGORE

Sampler (signature):

Special Instructions:

Relinquished By (signature): 1. — Date/Time 3/16/12 1437

Received By (signature): — Date/Time 3/16/12 1437

Ice Present in Container: Yes [X] No [ ]

Temperature Upon Receipt: 11.7

Relinquished By (signature): 2. — Date/Time

Received By (signature): — Date/Time

Laboratory Comments:

Sample Condition Upon Receipt

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Client Name: B M Project # 60117508

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Commercial ☐ Pace ☐ Other _____

Tracking #: _____ Pace Shipping Label Used? ☐ Yes ☑ No

Custody Seal on Cooler/Box Present: ☐ Yes ☑ No Seals intact: ☐ Yes ☑ No

Optional
Proj. Due Date: 3/27/12
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ Foam ☐ None ☑ Other ZIPLOC

Thermometer Used: (T-191) / T-194 Type of Ice: (Wet) Blue None ☐ Samples on ice, cooling process has begun

Cooler Temperature: 11.7

Date and Initials of person examining contents: 3-16-12

Temperature should be above freezing to 6°C

		Comments:
Chain of Custody present:	☑ Yes ☐ No ☐ N/A	1.
Chain of Custody filled out:	☑ Yes ☐ No ☐ N/A	2.
Chain of Custody relinquished:	☑ Yes ☐ No ☐ N/A	3.
Sampler name & signature on COC:	☑ Yes ☐ No ☐ N/A	4.
Samples arrived within holding time:	☑ Yes ☐ No ☐ N/A	5.
Short Hold Time analyses (<72hr):	☐ Yes ☑ No ☐ N/A	6.
Rush Turn Around Time requested:	☐ Yes ☑ No ☐ N/A	7.
Sufficient volume:	☑ Yes ☐ No ☐ N/A	8.
Correct containers used:	☑ Yes ☐ No ☐ N/A	9.
-Pace containers used:	☑ Yes ☐ No ☐ N/A	
Containers intact:	☑ Yes ☐ No ☐ N/A	10.
Unpreserved 5035A soils frozen w/in 48hrs?	☐ Yes ☐ No ☑ N/A	11.
Filtered volume received for dissolved tests	☐ Yes ☐ No ☑ N/A	12.
Sample labels match COC:	☑ Yes ☐ No ☐ N/A	13.
-Includes date/time/ID/analyses Matrix: SL		
All containers needing preservation have been checked.	☐ Yes ☐ No ☑ N/A	14.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐ Yes ☐ No ☑ N/A	
Exceptions: VOA, coliform, TOC, O&G, WI-DRO (water), Phenolics	☐ Yes ☑ No	Initial when completed _____ Lot # of added preservative _____
Trip Blank present:	☐ Yes ☐ No ☑ N/A	15.
Pace Trip Blank lot # (if purchased): _____		
Headspace in VOA vials (>6mm):	☐ Yes ☐ No ☑ N/A	16.
Project sampled in USDA Regulated Area:	☐ Yes ☐ No ☑ N/A	17. List State: _____

Client Notification/ Resolution: Copy COC to Client? Y (N) Field Data Required? Y / (N)

Person Contacted: _____ Date/Time: _____

Comments/ Resolution:

3/19 — Flip to Rush per TREAVER

Project Manager Review: _____ Date: 3/19/12

Note: Whenever there is a discrepancy affecting North Carolina compliance samples a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)