

Electronic Correspondence

August 27, 2014

Dr. Tomas Oberding
State of New Mexico
Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240
tomas.oberding@state.nm.us

Re: Corrective Action Plan

LINN Energy, Mescalero Ridge Unit 35 Battery

API No.: 30-025-20565

Legal: Unit J- Sec 35 - T19S - R34E, Lea Co., NM

GPS: 32.615815, -103.526638

### Dear Tomas:

Etech Environmental & Safety Solutions, Inc. (Etech) is pleased to submit the following corrective action plan on the aforementioned site for your review and approval.

## Scope of Work

The scope of this project is for the remediation of a produced water/hydrocarbon impact. The spill was contained to the battery containment and the caliche road. Completion of remediation will involve the following actions:

- 1. Placement of a one-call for utility location.
- 2. Excavation of impacted soils as far as practicable or until the chloride levels are less than 1,000 mg/kg and/or hydrocarbon levels of less than 5,000 mg/kg are reached. A copy of the assessment map and the sample data are attached. Please note: The delineation data was collected from the lowest point in the impacted area where it was evident liquids had pooled. The assessment map includes the delineation data and the sampling points (SP's) that will be used to determine that the excavation has reached remediation objectives.
- 3. During the course of excavation soil samples will be screened on site to determine the progress of the remediation. Screening is achieved using a YSI chloride meter with a tolerance of +/- 6% which is the same tolerance as laboratory titration methods.
- 4. Once the screening determines the remediation objectives have been reached, confirmation samples will be collected from the bottom of the excavation to confirm that remediation goals have been reached. If the excavation depth is greater than 2 feet vertical, side wall samples will be collected as well.
- 5. If the results of analysis determine that the chloride levels are above regulatory threshold levels, additional excavation will be performed until the remediation objectives are met. It should be noted that due to the depth of the impact from the delineation, there may be

circumstance that arise where additional excavation is not practical. This includes reaching the limits of excavation with chlorides that are close to objective levels, safety issues such as the close proximity of equipment, or other site specific issues. In this event, it will be likely to install a liner or a layer of gypsum at the bottom of the excavation before backfilling.

- 6. Backfilling of the excavated area(s) will be achieved by placing clean fill similar to the existing material from the site to within 2 foot of the surface. The last two feet will be backfilled with top soil of similar configuration to the surrounding area and contoured to match the existing grade.
- 7. Where pad areas or interior areas of tank batteries are excavated, they will be backfilled to within 6 inches of surface then backfilled to grade with compacted caliche. Any firewalls or containment berms removed during remediation will be reinstalled.
- 8. The site will be seeded with a 50/50 mixture of BLM #2 and #4 seed. Seeding will take place when the seasonal conditions are conducive to maximizing the potential for seed germination. Actual seeding will be accomplished by broadcast or drilling; whichever is the most practical for the site.

# **Notifications and Special Conditions**

- 1. The OCD and BLM will be notified prior to the commencement of on-site operations.
- The OCD and BLM will be notified prior to each sampling event to allow the opportunity to witness the sampling events. Splits will be made available if requested.
- 3. The OCD and BLM (if applicable) will be notified when the site is closed for final inspection prior to seeding.
- 4. A final report documenting the closure of the site will be submitted along with a final C-141.

Thank you for your assistance on this matter. Should you have any questions, require additional information, or have any additional stipulations for this site, please contact Mr. Brian Wall at (575) 738-1739 (Office) or via email at <a href="mailto:bwall@linnenergy.com">bwall@linnenergy.com</a> or myself at (432) 563-2200 (office) or via email at <a href="mailto:kit@etechenv.com">kit@etechenv.com</a>.

Respectfully:

Kit Prichard

**Environmental Professional** 

cc: Jeffery Robertson, BLM Carlsbad District Office



Data use subject to license.

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June 04, 2014

KIT PRICHARD

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: MRU 35 TB

Enclosed are the results of analyses for samples received by the laboratory on 05/28/14 16:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab\_accred\_certif.html">www.tceq.texas.gov/field/ga/lab\_accred\_certif.html</a>.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keens

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

 Received:
 05/28/2014
 Sampling Date:
 05/28/2014

 Reported:
 06/04/2014
 Sampling Type:
 Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes)
Project Number: 253-4926-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

### Sample ID: SP 1 2-3' (H401640-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.12	106	2.00	0.844	
Toluene*	<0.050	0.050	05/30/2014	ND	2.11	106	2.00	1.26	
Ethylbenzene*	0.083	0.050	05/30/2014	ND	2.04	102	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.39	106	6.00	1.82	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	131 9	% 89.4-12	6						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1060	16.0	06/03/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2014	ND	160	79.8	200	7.66	
DRO >C10-C28	215	10.0	05/30/2014	ND	178	89.1	200	6.09	
Surrogate: 1-Chlorooctane	81.5	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	93.0	% 63.6-15	4						

Cardinal Laboratories \*=Accredited Analyte

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 05/28/2014 Sampling Date: 05/28/2014

Reported: 06/04/2014 Sampling Type: Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes)
Project Number: 253-4926-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

### Sample ID: SP 2 5-6' (H401640-05)

BTEX 8021B	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.12	106	2.00	0.844	
Toluene*	<0.050	0.050	05/30/2014	ND	2.11	106	2.00	1.26	
Ethylbenzene*	<0.050	0.050	05/30/2014	ND	2.04	102	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.39	106	6.00	1.82	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	06/03/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	05/30/2014	ND	160	79.8	200	7.66	
DRO >C10-C28	406	10.0	05/30/2014	ND	178	89.1	200	6.09	
Surrogate: 1-Chlorooctane	90.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108 9	% 63.6-15	4						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 05/28/2014 Sampling Date: 05/28/2014

Reported: 06/04/2014 Sampling Type: Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes)
Project Number: 253-4926-000 Sample Received By: Jodi Henson

Project Location: LEA COUNTY, NM

### Sample ID: SP 3 3-4' (H401640-07)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/30/2014	ND	2.12	106	2.00	0.844	
Toluene*	<0.050	0.050	05/30/2014	ND	2.11	106	2.00	1.26	
Ethylbenzene*	0.052	0.050	05/30/2014	ND	2.04	102	2.00	1.76	
Total Xylenes*	<0.150	0.150	05/30/2014	ND	6.39	106	6.00	1.82	
Total BTEX	<0.300	0.300	05/30/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	124 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	336	16.0	06/03/2014	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/02/2014	ND	202	101	200	2.27	
DRO >C10-C28	1150	50.0	06/02/2014	ND	225	112	200	5.41	
Surrogate: 1-Chlorooctane	85.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	116 9	% 63.6-15	4						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 05/28/2014 Sampling Date: 05/28/2014

Reported: 06/04/2014 Sampling Type: Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes) Sample Received By: Project Number: 253-4926-000 Jodi Henson

Project Location: LEA COUNTY, NM

### Sample ID: SP 4 3-4' (H401640-09)

BTEX 8260B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2014	ND	2.05	103	2.00	9.77	
Toluene*	<0.050	0.050	06/03/2014	ND	2.06	103	2.00	8.38	
Ethylbenzene*	<0.050	0.050	06/03/2014	ND	2.01	100	2.00	5.63	
Total Xylenes*	<0.150	0.150	06/03/2014	ND	5.99	99.8	6.00	6.95	
Total BTEX	<0.300	0.300	06/03/2014	ND					
Surrogate: Dibromofluoromethane	98.1	% 61.3-14	2						
Surrogate: Toluene-d8	100	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	98.5	% 65.7-14	1						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	06/03/2014	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2014	ND	202	101	200	2.27	
DRO >C10-C28	211	10.0	06/02/2014	ND	225	112	200	5.41	
Surrogate: 1-Chlorooctane	89.2	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103 9	% 63.6-15	4						

Surrogate: 1-Chlorooctadecane

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

Received: 05/28/2014 Sampling Date: 05/28/2014

Reported: 06/04/2014 Sampling Type: Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes)
Project Number: 253-4926-000 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: LEA COUNTY, NM

ma/ka

### Sample ID: SP 5 4-5' (H401640-12)

RTFY 8260R

B1EX 8260B	mg	/ kg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2014	ND	2.05	103	2.00	9.77	
Toluene*	<0.050	0.050	06/03/2014	ND	2.06	103	2.00	8.38	
Ethylbenzene*	<0.050	0.050	06/03/2014	ND	2.01	100	2.00	5.63	
Total Xylenes*	<0.150	0.150	06/03/2014	ND	5.99	99.8	6.00	6.95	
Total BTEX	<0.300	0.300	06/03/2014	ND					
Surrogate: Dibromofluoromethane	96.5	% 61.3-14	22						
Surrogate: Toluene-d8	99.5	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	95.8	% 65.7-14	1						
Chloride, SM4500CI-B	mg	/kg	Analyze	ed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	06/03/2014	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2014	ND	202	101	200	2.27	
DRO >C10-C28	108	10.0	06/02/2014	ND	225	112	200	5.41	
Surrogate: 1-Chlorooctane	97.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	108	% 63.6-15	4						

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ETECH Environmental & Safety Solutions, Inc.

KIT PRICHARD P. O. BOX 8469 MIDLAND TX, 79708

Fax To: (432) 563-2213

 Received:
 05/28/2014
 Sampling Date:
 05/28/2014

 Reported:
 06/04/2014
 Sampling Type:
 Soil

Project Name: MRU 35 TB Sampling Condition: \*\* (See Notes)
Project Number: 253-4926-000 Sample Received By: Jodi Henson

Analyzed By: me

Project Location: LEA COUNTY, NM

ma/ka

### Sample ID: SP 6 5-6' (H401640-15)

RTFY 8260R

B1EX 8260B	mg/	кg	Analyze	a By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/03/2014	ND	2.05	103	2.00	9.77	
Toluene*	<0.050	0.050	06/03/2014	ND	2.06	103	2.00	8.38	
Ethylbenzene*	<0.050	0.050	06/03/2014	ND	2.01	100	2.00	5.63	
Total Xylenes*	<0.150	0.150	06/03/2014	ND	5.99	99.8	6.00	6.95	
Total BTEX	<0.300	0.300	06/03/2014	ND					
Surrogate: Dibromofluoromethane	96.8	% 61.3-14	2						
Surrogate: Toluene-d8	102	% 71.3-12	9						
Surrogate: 4-Bromofluorobenzene	100	% 65.7-14	1						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	464	16.0	06/03/2014	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2014	ND	202	101	200	2.27	
DRO >C10-C28	<10.0	10.0	06/02/2014	ND	225	112	200	5.41	
Surrogate: 1-Chlorooctane	85.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	90.0	% 63.6-15	4						

# Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

1

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

	Ħ	ANALYSIS REQUEST
Company Name: Frech	B/LL IO	ZINCE OIG
	P.O. #: 253 49 26	00%
-	Company:	
City: State:	Zip: Attn:	
Phone #: Fax #:	Address:	
Project #: 253-4926-800 Project Owner:	city:	
Project Name: MRW 35 TB	State: Zip:	
=	A. Phone #:	;
Sampler Name: Terry 056017	Fax#:	X
-	MATRIX PRESERV. SAMPLING	
Lab I.D. Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER:	Chlor. TPI- BTI
0/5/11-2)	V 5-28-14 10:00	9 (0:00
02 50   2-3		
B502 1-23		
04562 3-4°		
055/02 5-6		
06 503 1-2		
075/3 3-4		< < < < < < < < < < < < < < < < < < <
JS64 1-2"		
09504 3-4		
10504 1-2		
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the please analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and reselved by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in witing and reselved by Cardinal within 30 days after completion of the applicable control of the plant of the	any claim arising whether based in contract or fort, shall be limited to the amount e deemed waived unless made in writing and received by Cardinal within 30 days a no without limitation, business intigruptions, loss of use, or loss of profits incurred to	paid by the client for the state of the state of the state on the state on the state of the applicable by client, its subsidiaries,
service. In no event shall Cardinal be liable for incidental or consequental damages, including	ng williout initiation, business mile impriorio, toss or ess, or loss or prome movines	of election are accommended

Sample Condition
Cool Intact
See Yes Wes

CHECKED BY:

Sampler - UPS - Bus - Other:

Delivered By: (Circle One)

Date: Time:

Relinquished By:

Relinquished By

Date: 5-14 Time:45

> Phone Result: Fax Result: REMARKS:

> > □ Yes

ON O

Add'l Phone #: Add'l Fax #:

Received B



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

(575) 393-2326 FAX (575) 393-24/6	75) 393-2476		Torion Division	
Company Name: Etech		BILL TO	ANALYSIS REQUEST	
	crd	P.O. #: 253-4926-009	00	
Address:		Company:		
	State: Zip:	Attn:		
le #:	Fax #:	Address:		
253-4926-000	Project Owner:	City:		
Project Name: MRW 35	TB	State: Zip:	5	
Project Location: Lea County	× .	Phone #:	le	
たいりのへ	62.0	Fax #:		
- / / / / /	MATRIX	PRESERV. SAMPLING	)	
Lab I.D. Sample I.D.	AB OR (C)OMP.  ONTAINERS  OUNDWATER  STEWATER	IER: D/BASE: / COOL IER:	chlo. TPh BTe	
H401140.	# C GF W/	V 5-28-₩	INVE	
12 505 4-5	-4		< < <	
3506 1-23	<	<<		
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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the places. Cardinal's liability and client's exclusive remedy for any claim arising whether based in ornitract or tort, shall be limited to the amount paid by the client for the places. Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses.	's exclusive remedy for any claim arising whether based in contra se whatsoever shall be deemed waived unless made in writing a serial damages, including without limitation, business interjuption	act or tort, shall be limited to the amount paid by the and received by Cardinal within 30 days after toms, loss of use, or loss of profits incurred by client,	e client for the period of the period of the applicable to the applicable to subsidiaries,	
affiliates or successors arising out of or related to the performance of Relinguished By:	Date: 3-14 Received By:	Such claim is based upon any of the above scaled leading.  Fa.  RE	Phone Result:	
Relinquished By:	Received By			
	Time:			

Sample Condition
Cool Intact
Yes Yes
No No

CHECKED BY: (Initials)

Sampler - UPS - Bus - Other #54

Delivered By: (Circle One)