

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Dugan Production Corp	Contact:	Neil Haws
Address	PO Box 420, Farmington NM 87499-0420	Telephone No.	505-635-3124
Facility Name:	Seoul 88	Facility Type:	Gas well
Surface Owner:	Federal	Mineral Owner:	Indian
		API No.	30-0452663000S1

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	9	23N	10W	330	N	330	E	San Juan

Latitude: 36.247527 Longitude: -107.893804

NATURE OF RELEASE

Type of Release:	Contaminated Soil	Volume of Release:	UNK	Volume Recovered:	UNK
Source of Release:	ORIGINAL RESERVE PIT	Date and Hour of Occurrence	UNK	Date and Hour of Discovery	4-27-18
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?			
By Whom?		Date and Hour:			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. None			

NMOC

SEP 11 2018

DISTRICT III

Describe Cause of Problem and Remedial Action Taken.* On 4-27-2018 Dugan Production crew was replacing a fiberglass BGT with a larger steel BGT at Seoul 88. While cleaning out cellar area the crew noticed stained soil. Crew removed soil within the cellar area to the mechanical limits of the equipment.

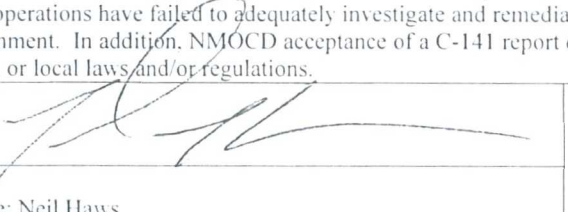

Describe Area Affected and Cleanup Action Taken.*

(On location) Stained soil will be removed and taken to an approved land farm, clean soil will be used for replacement as needed.

Final: Stained soil was removed from pit until clean dirt was located; samples were taken and returned within acceptable levels. Stained soil was taken to the Envirotech land farm. Approved soil was brought in to backfill the pit. The new Steel BGT has been set in place, new BGT has been registered and will follow all of the requirements of 19.15.17 NMAC.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:			
Printed Name:	Neil Haws	Approved by Environmental Specialist:	
Title:	Environmental	Approval Date:	10/10/18
E-mail Address:	neil.haws@duganproduction.com	Expiration Date:	
Date:	8-8-18	Conditions of Approval:	
Phone:	505-635-3124	Attached	<input type="checkbox"/>

Attach Additional Sheets If Necessary

#NCS 18 16332174

11

August 01, 2018

MIKE SANDOVAL

DUGAN PRODUCTION

P. O. BOX 420

FARMINGTON, NM 87499

RE: SEOUL 88

Enclosed are the results of analyses for samples received by the laboratory on 07/31/18 11:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. 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 www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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.

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,



Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 MIKE SANDOVAL
 P. O. BOX 420
 FARMINGTON NM, 87499
 Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 WALL #1 SO (H802082-01)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 104 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION
MIKE SANDOVAL
P. O. BOX 420
FARMINGTON NM, 87499
Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 WALL #2 E (H802082-02)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 106 % 41-142

Surrogate: 1-Chlorooctadecane 105 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION
MIKE SANDOVAL
P. O. BOX 420
FARMINGTON NM, 87499
Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 WALL #3 W (H802082-03)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 106 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 MIKE SANDOVAL
 P. O. BOX 420
 FARMINGTON NM, 87499
 Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 WALL #4 N (H802082-04)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16		
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97		
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41		
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50		
Total BTEX	<0.300	0.300	08/01/2018	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 105 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 97.9 % 41-142

Surrogate: 1-Chlorooctadecane 97.3 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 MIKE SANDOVAL
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 FARMINGTON NM, 87499
 Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 BOTTOM (H802082-05)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 107 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 100 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

DUGAN PRODUCTION
MIKE SANDOVAL
P. O. BOX 420
FARMINGTON NM, 87499
Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 PILE #1 T (H802082-06)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 92.7 % 41-142

Surrogate: 1-Chlorooctadecane 90.1 % 37.6-147

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*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 DUGAN PRODUCTION
 MIKE SANDOVAL
 P. O. BOX 420
 FARMINGTON NM, 87499
 Fax To: (505) 327-4043

Received:	07/31/2018	Sampling Date:	07/30/2018
Reported:	08/01/2018	Sampling Type:	Soil
Project Name:	SEOUL 88	Sampling Condition:	Cool & Intact
Project Number:	BELOW GRADE TANK PIT SEPARATOR	Sample Received By:	Tamara Oldaker
Project Location:	NONE GIVEN		

Sample ID: SEOUL #88 PILE #2 P (H802082-07)

BTEX 8021B			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/01/2018	ND	2.24	112	2.00	3.16	
Toluene*	<0.050	0.050	08/01/2018	ND	2.28	114	2.00	3.97	
Ethylbenzene*	<0.050	0.050	08/01/2018	ND	2.27	114	2.00	4.41	
Total Xylenes*	<0.150	0.150	08/01/2018	ND	6.67	111	6.00	4.50	
Total BTEX	<0.300	0.300	08/01/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 69.8-142

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	07/31/2018	ND	432	108	400	0.00	

TPH 8015M			mg/kg		Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	08/01/2018	ND	190	95.2	200	4.97	
DRO >C10-C28*	<10.0	10.0	08/01/2018	ND	204	102	200	1.15	
EXT DRO >C28-C36	<10.0	10.0	08/01/2018	ND					

Surrogate: 1-Chlorooctane 96.8 % 41-142

Surrogate: 1-Chlorooctadecane 94.8 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name(If Applicable): <u>Dugan Production</u>				Bill to (if different):				ANALYSIS REQUEST											
Contact Person: <u>Mike Sandoval</u>				P.O. #:				<div style="writing-mode: vertical-rl; transform: rotate(180deg);"> betx, cl, beaz, TPH </div>											
Address:				Company:															
City: State: Zip:				Attn:															
Phone #:				Address:															
Email:				City:															
Project Name(optional): <u>Seoul #88</u>				State: Zip:															
Project Number(optional): <u>Below Grade Tank pit separator</u>				Phone #:															
Sampler Name (Print): <u>Michael Sandoval</u>				Email:															
For Lab Use	Sample Name or Location	Collected		Matrix (check one)						# of containers									
		Date	Time	GROUNDWATER	SURFACEWATER	WASTEWATER	PRODUCEDWATER	SOIL	DRINKING WATER	OTHER:	No preservation (general)	HNO ₃	HCl	H ₂ SO ₄	Other:	Other:			
<u>H802082</u>																			
1	<u>Seoul #88 well #1 So</u>	<u>7-30-18</u>	<u>11:00</u>																
2	<u>Seoul #88 well #2 E</u>	<u>7-30-18</u>	<u>11:15</u>																
3	<u>Seoul #88 well #3 W</u>	<u>7-30-18</u>	<u>11:30</u>																
4	<u>Seoul #88 well #4 N</u>	<u>7-30-18</u>	<u>11:45</u>																
5	<u>Seoul #88 Bottom</u>	<u>7-30-18</u>	<u>12:00</u>																
6	<u>Seoul #88 pile #1 T</u>	<u>7-30-18</u>	<u>12:15</u>																
7	<u>Seoul #88 pile #2 P</u>	<u>7-30-18</u>	<u>12:30</u>																

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Relinquished By: <u>Mike Sandoval</u>	Date: <u>7-30-18</u>	Received By: <u>Christina Clark</u>	ADDITIONAL REMARKS: Report to State? (Circle) Yes No <u>Rush!</u>
Relinquished By: <u>Christina Clark</u>	Date: <u>7/30/18</u>	Received By: <u>Fed Ex</u>	
Relinquished By:	Date: <u>7-31-18</u>	Received By: <u>Samara Dabbs</u>	
Delivered By: (Circle One) <u>UPS</u>	Time: <u>1:00</u>	Time: <u>11:15</u>	
Sampler - UPS - FedEx - Kangaroo - Other: <u>Corrected 1.75°C</u>		Temperature at receipt: <u>3.3°C</u>	CHECKED BY: <u>anica #75</u>

† GAL cannot always accept verbal changes. Please fax or email written change requests.
* Chain of Custody must be signed in "Relinquished By:" as an acceptance of services and all applicable charges.