SQ Environmental, LLC
P.O. Box 1991
Austin, TX 78767-1991
(512) 656-9445
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5 April 2016

Mr. Mike Bratcher
New Mexico Oil Conservation Division
811 South First St.
Artesia, New Mexico 88210

Via Email: Mike.Bratcher@state.nm.us

Re: Release Closure Report
Candelario 24 #1 SWD Battery
Project No. 2RP-2400
UL/E Section 24 T23S R28E
API No. 30-015-26536

Dear Mr. Bratcher:

SQ Environmental (SQE) prepared this report to describe the assessment and response action activities conducted at the Candelario 24 #1 Saltwater Disposal Well (SWD) Battery site. The assessment and response actions were conducted at the Candelario 24 #1 site to resolve remaining issues associated with a release of produced fluid that occurred at the site. This work was performed on behalf of Rockcliff Operating New Mexico LLC (Rockcliff). Rockcliff has just recently acquired assets in the Loving, New Mexico area from Vanguard Operating LLC (Vanguard).

Background

A release of produced fluid from one of the flow lines to the Candelario 24 #1 SWD occurred in July 2014. The release site is located approximately three miles east of Loving, Eddy County, New Mexico, as shown on Figure 1. Vanguard operated the Candelario 24 #1 SWD at the time of the release. Notice was provided to the New Mexico Oil Conservation Division (NMOCD) by Vanguard, and an initial C-141 form was submitted. Release identification number 2RP-2400 was assigned to the incident by NMOCD. An initial soil assessment was conducted in the area of the release and chloride-affected shallow soils were identified. Total petroleum hydrocarbons were not reported in the soil assessment samples at elevated concentrations. Based on the results of the initial sampling activities, a Corrective Action Plan (CAP) dated 13 October 2014 was submitted to NMOCD.

Assessment and Response Actions

In accordance with the CAP, the upper 4 feet (ft) of soil within an approximately 2,251 square ft area was removed in November 2014. A 20-mil reinforced poly liner was placed in the excavation and “seated” to minimize infiltration through the soil. The excavation was backfilled with imported fill material, contoured to match the surrounding grade, and seeded with a blend of native vegetation. Documentation of the soil removal and liner installation work was submitted to the NMOCD by Vanguard in a previous report. In an e-mail dated 20 October 2014, the “dirt work” portion of the CAP was approved.

Based on the results of soil samples collected from soil borings in the area, the CAP proposed that a groundwater monitoring well be installed to evaluate whether groundwater in the vicinity of the release had been impacted. The installation of the groundwater monitoring well was approved by the NMOCD in an e-mail dated 20 October 2014, with the clarification that the well be "situated as close to the excavation as practical, on the probable down gradient side." SQE, on behalf of Rockcliff, submitted a Well Installation Plan with details on the proposed monitoring well. The Well Installation Plan was approved by the NMOCD on 18 March 2016.

SQE mobilized to the site on 22 March 2016 to install the monitoring well. As requested by the NMOCD, the well was installed as close as possible to the former excavation area to evaluate potential chloride impacts to groundwater. The location of the monitoring well ("MW-01") is shown on Figure 2. Prior to completing the well installation, the proposed location was staked and a New Mexico One Call utility locate request was completed.

The monitoring well borehole was drilled by air rotary methods to a total depth of 40 ft below ground surface (bgs). The soil boring cuttings were continuously sampled and logged in general accordance with American Society for Testing and Materials (ASTM) Standard No. D2488-00. A boring log and well completion diagram is included as Appendix A. The uppermost saturated zone was encountered at a depth of 32 ft bgs, and the well was further drilled to a total depth of 40 ft bgs to facilitate installation of a monitoring well. After total depth was achieved, a two inch diameter schedule 40 polyvinyl chloride (PVC) well was installed in the borehole. The well was completed with 10 ft of slotted (0.01-inch) PVC screen with a PVC bottom cap. The PVC screen was installed across the vadose zone/saturated zone interface at a depth of 28 to 38 ft bgs. The well was completed with blank PVC casing to ground surface. A #20/40 silica sand filter pack was installed around the well to a depth of approximately 2 ft above the top of the screen, and a two-ft-thick bentonite seal was installed above the sand pack. The bentonite seal was hydrated and allowed to cure before continuing with the well completion. A bentonite-cement grout mixture was added to the borehole annular space from the top of the bentonite seal to ground surface. The grout was allowed to cure before installing the well surface completion. A concrete pad and locking flush mount cover surface completion were installed on the well.

Following installation, the monitoring well was developed with a submersible pump to clean the well screen and filter pack and remove fine grained material from the well casing. The well was developed until the purge water was clear and field water quality parameters (temperature, pH, conductivity, and dissolved oxygen) stabilized. Approximately ten well volumes of groundwater were removed from the well during the development activities. Following development, the depth to water in the well was gauged using an oil-water interface probe, and the well was sampled by low-flow purge methods. The groundwater sample was collected in a laboratory supplied container, placed on ice, and delivered to ALS Laboratory in Houston, Texas for analysis of chloride by EPA Method 9056A. The reported chloride concentration in the sample collected from MW-01 was 14,800 mg/L. Reported chloride concentrations are summarized on Table 2 and shown on Figure 3. The laboratory analytical report is included as Appendix B.

Based on field measurements of conductivity in purged groundwater from MW-01, two additional monitoring wells were installed to delineate chloride concentrations in shallow groundwater. MW-02 and MW-03 were installed downgradient (east-northeast) of MW-01, between the release site and the Pecos River. Boring and well completion logs for MW-02 and MW-03 are included in Appendix A. The lithology observed in the boring soil boring for MW-02 was consistent with the lithology in the MW-01 location; sand and gravel

alluvial material were observed from the surface to total depth in both borings Increased clay content was observed in the MW-03 boring, likely due to a change in lithology in the area of the Pecos River.

MW-02 and MW-03 were drilled, installed, and completed by the same methods described above for MW-01. MW-02 was installed approximately 300 ft east-northeast of MW-01, and MW-03 was installed approximately 420 ft east-northeast of MW-02. Following development, a groundwater sample was collected from each well by low-flow purge methods. The reported chloride concentration in the sample collected from MW-02 was 2,010 mg/L. The reported chloride concentration in the sample collected from MW-03 was 11,300 mg/L.

A water well is located approximately 1,100 ft south of MW-01, as shown on Figure 2. A groundwater sample was collected from the well ("WW-01") and delivered to the laboratory for analysis of chlorides. The reported chloride concentration in the water well sample was 2,060 mg/L.

A sample was also collected from an upstream location of the Pecos River during the site assessment. The Pecos River is located approximately 500 ft northeast of the release site, and flows from the northwest to the southeast in the area of the site. The reported chloride concentration in the Pecos River surface water sample was 1,170 mg/L. As part of the assessment activities, historical reports and hydrogeological data for the area were reviewed. According to U.S. Geological Survey report No. 1601, *Saline Water Resources of New Mexico*, the Pecos River alluvial deposits in Eddy County yield moderately saline water with total dissolved solids ranging from 3,000 to 10,000 parts per million (ppm). According to the report, two samples collected from the Pecos River in the area had reported chloride concentrations of 1,820 mg/L and 6,600 mg/L. Salt Lake, located across the Pecos River to the east, is used for commercial mining of naturally occurring salt deposits. The location of Salt Lake is provided on Figure 1.

Following completion of the well installation activities, the relative elevations of the top of casings on the three monitoring wells and the water well were surveyed. The wells were allowed to equilibrate overnight and the depth to water in each well was gauged using an oil-water interface probe. The water level measurements in the three monitoring wells ranged from 21.00 to 25.94 ft below top of casing. The measured depth to water and the calculated relative elevations are summarized on Table 1 and shown on Figure 2. Based on the water level elevation data collected during the site assessment activities, the shallow groundwater flow direction in the release area appears to be to the east-northeast toward the Pecos River at a gradient of approximately 0.007 ft/ft. The shallow groundwater gradient, along with an estimated hydraulic conductivity of 0.001 ft/second based on the sandy gravel lithology observed in the borings, was used to estimate the flow velocity of shallow groundwater at the site. The groundwater flow velocity was estimated to be approximately 0.58 ft/day, or 212 ft/year.

Conclusions and Recommendations

A release of produced fluid from one of the flow lines to the Candelario 24 #1 SWD occurred in July 2014. Assessment and response actions were conducted at the site in September 2014 through March 2016. Soil affected by the release has been addressed through response actions, including soil excavation and removal, and the installation of a 20-mil reinforced poly liner in the excavation to minimize infiltration through the soil.

A groundwater assessment was conducted to delineate chloride concentrations in groundwater. Based on the results of the groundwater sample collected from MW-01, shallow groundwater appears to have been

affected by the release. The approximate area of chloride affected groundwater is shown on Figure 3. Using the estimated flow velocity and a release date of July 2014, chlorides from the produced water could have traveled a maximum of approximately 350 ft in the groundwater. The reported chloride concentration in MW-02 (2,010 mg/L), which is approximately 300 ft downgradient of the release area, was similar to the reported concentration in the background sample collected from an upgradient water well (2,060 mg/L). The concentration of the chlorides reported to be present in the sample from well MW-03 (11,300 mg/L), which is 720 feet from MW-01 (and well beyond any potential impacts from the 2014 produced water release), indicates that there are other contributors (either natural or historical oil and gas operations) that have affected the shallow groundwater in the general vicinity of the 2014 produced water release. Based on the results of the assessment activities, it appears that the impacts to the groundwater are fairly limited in extent, and will dissipate with time. There are no water wells within the affected area and no other potential exposure pathways. Based on the work that has been completed (soil removal and placement of the plastic liner, and delineation of the affected groundwater), along with the lack of potential exposure to the affected groundwater, it is proposed that no additional sampling be performed, and that final closure be issued for the 2014 release. On NMOCD approval, the groundwater monitoring wells will be properly plugged and abandoned.

Please let us know if you have any questions regarding this report or need any additional information.

Sincerely,
SQ Environmental, LLC

Samuel Enis, P.G.
Senior Geologist

Susan T. Litherland, P.E.
Principal

Cc: Nick Koch – Rockcliff Operating New Mexico LLC

Attachments

SOURCE: USGS LOVING QUADRANGLE

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FIGURE 1

SITE LOCATION MAP

CANDELARIO 24 #1 SWD BATTERY
LOVING, NEW MEXICO

SCALE:	DATE:	PN:
1 IN = 3000 FT	APRIL 2016	1072.002.003

SOURCE: GOOGLE EARTH, IMAGE DATED 4/16/2013

N

NEW MEXICO

Legend:

MW-01 74.06 MONITORING WELL WITH GROUNDWATER ELEVATION

APPROXIMATE GROUNDWATER FLOW DIRECTION

0 175 350

SCALE IN FEET

SQ Environmental, LLC

FIGURE 2

WELL LOCATION MAP

CANDELARIO 24 #1 SWD BATTERY
LOVING, NEW MEXICO

SCALE:	DATE:	PN:
1 IN = 350 FT	APRIL 2016	1072.002.003

Source: Google Earth, base map aerial taken 4-16-13.

Legend:

- Approximate Area of Chloride Groundwater Plume
- Location of Soil Removal and Liner Installation
- MW-2 / 2,010 — Monitoring Well with Chloride concentration in mg/L.

SQ Environmental, LLC

FIGURE 3

GROUNDWATER CHLORIDE CONCENTRATION MAP

CANDELARIO 24 #1 SWD BATTERY
LOVING, NEW MEXICO

SCALE:	DATE:	PN:
As Shown	APRIL 2016	1072.002.003

TABLE 1
SUMMARY OF GROUNDWATER ELEVATIONS
CANDELARIO 24 #1
LOVING, NEW MEXICO

	Date	Top of Casing Elevation (ft)[1]	Total Depth (ft bgs)	Screen Interval (ft bgs)	Depth to Water (ft btoc)[2]	Relative Groundwater Elevation
MW-01	2/13/2016	100	38	28 - 38	25.94	74.06
MW-02	2/13/2016	100.2	38	28 - 38	28.41	71.79
MW-03	2/13/2016	90.92	36	26 - 36	21.00	69.92
WW-01	2/13/2016	123.45	NM[3]	--	43.75	79.70

Notes:

1. Relative Top of Casing elevations surveyed by SQE on 3/23/2016.
2. Depth to Water measurements collected by SQE on 3/23/2016.
3. The total depth of WW-01 was greater than the length of the water level meter (100 ft).

ft - feet

bgs - Below Ground Surface.

btoc - Below Top of Casing.

All measurements are shown in feet.

TABLE 2
SUMMARY OF WATER SAMPLE RESULTS
CANDELARIO 24 #1
LOVING, NEW MEXICO

	Sample ID	MW-01		MW-02		MW-03		WW-01		SW-01	
	Lab ID	HS16031133-01		HS16031133-02		HS16031133-03		HS16031133-04		HS16031130-01	
	Date	3/22/2016		3/22/2016		3/23/2016		3/23/2016		3/23/2016	
	Units	mg/L		mg/L		mg/L		mg/L		mg/L	
Chloride (SW9056)											
Chloride		**14,800**		**2,010**		**11,300**		**2,060**		**1,170**	

NOTES:

Bold values indicate concentration reported above the laboratory reporting limit (RL).

mg/L - milligram per liter.

APPENDIX A

BORING LOGS AND WELL CONSTRUCTION DIAGRAMS

SQ Environmental, LLC
PO Box 1991
Austin, TX 78767-1991
(512) 417-4659 or (512) 656-9445

Boring/Well Log

BORING ID: MW-01

WELL ID: MW-01

PROJECT INFORMATION

PROJECT: Candelario 24 #1 SWD Battery
SITE LOCATION: Loving, New Mexico
JOB NUMBER: 1015.007.001
PROJECT MANAGER: Susan Litherland, PE
LOGGED BY: Sam Enis, PG
DATE(S) DRILLED: 3/22/2016

DRILLING INFORMATION

DRILLING COMPANY: HCI Drilling
DRILLING METHOD: Air Rotary
TOTAL DEPTH: 40 ft bgs
BORING DIAMETER: 6-inch WELL DIAMETER: 2-inch

TOP OF CASING ELEVATION: NM
GROUND ELEVATION: NM

N. LATITUDE	W. LONGITUDE
NA	NA

REMARKS: Soil cuttings logged at surface. Locking flush-mounted surface completion installed at well. Located at: 32.294134, -104.046126.

INITIAL WATER LEVEL IN WELL: 31 ft bgs

STATIC WATER LEVEL IN WELL: 25.94 ft btoc

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	WELL COMPLETION	INSTALLATION NOTES
0		SW	0-10' Sand, reddish brown, fine grained, occasional sub-rounded gravel (black and gray) up to 2-inch diameter. Dry.		100		
5					100		Bentonite-cement grout from 0-16 ft bgs
10		GW	10-20' Sand and gravel, medium-coarse grained. Sub-angular gravel up to 1-inch diameter. Black and gray gravel. Tan and red sand. Dry.		100		
15			Increased small, black, angular gravel from 15-20'		100		
20			20-25' Gravel, ¼ to 1-inch diameter. Gray, black, and brown, sub-rounded to rounded, dry, with coarse sand.		100		Bentonite from 16-26 ft bgs
25			25-40' Gravel, up to 1-inch diameter. Light and dark gray, sub-rounded to rounded, dry, with coarse sand.		100		20/40 Sand from: 26-38 ft bgs
30			Saturated at 31'.		100		Screen 0.01" slotted from 28-38 ft bgs
35			Clay lenses encountered from 38-40'.				
40							

SQ Environmental, LLC
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(512) 417-4659 or (512) 656-9445

Boring/Well Log

BORING ID: MW-02

WELL ID: MW-02

PROJECT INFORMATION

PROJECT: Candelario 24 #1 SWD Battery
SITE LOCATION: Loving, New Mexico
JOB NUMBER: 1015.007.001
PROJECT MANAGER: Susan Litherland, PE
LOGGED BY: Sam Enis, PG
DATE(S) DRILLED: 3/22/2016

DRILLING INFORMATION

DRILLING COMPANY: HCI Drilling
DRILLING METHOD: Air Rotary
TOTAL DEPTH: 40 ft bgs
BORING DIAMETER: 6-inch WELL DIAMETER: 2-inch

TOP OF CASING ELEVATION: NM
GROUND ELEVATION: NM

N. LATITUDE	W. LONGITUDE
NA	NA

REMARKS: Soil cuttings logged at surface. Locking flush-mounted surface completion installed at well. Located at: 32.294382, -104.045235.

INITIAL WATER LEVEL IN WELL: 32 ft bgs

STATIC WATER LEVEL IN WELL: 28.41 ft btoc

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	WELL COMPLETION	INSTALLATION NOTES
0		SW	0-10' Sand with gravel, reddish brown, fine to medium grained, sub-rounded gravel (black and gray) up to 1-inch diameter. Dry.		100		
5			Color change to dark brown from 5-10'.		100		Bentonite-cement grout from 0-16 ft bgs
10		GW	10-20' Sand and gravel, medium-coarse grained. Sub-rounded gravel up to 2-inch diameter. Black and gray gravel. Light brown and gray sand. Dry.		100		
15					100		
20			20-25' Sand and Gravel, ¼ to 1-inch diameter. Gray, black, and brown, sub-rounded to rounded, dry, coarse sand.		100		Bentonite from 16-26 ft bgs
25			25-40' Gravel, up to 1-inch diameter. Dark gray, sub-rounded, dry, with coarse sand.		100		20/40 Sand from: 26-38 ft bgs
30			Saturated at 32'.		100		Screen 0.01" slotted from 28-38 ft bgs
35							
40							

SQ Environmental, LLC
PO Box 1991
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Boring/Well Log

BORING ID: MW-03

WELL ID: MW-03

PROJECT INFORMATION

PROJECT: Candelario 24 #1 SWD Battery
SITE LOCATION: Loving, New Mexico
JOB NUMBER: 1015.007.001
PROJECT MANAGER: Susan Litherland, PE
LOGGED BY: Sam Enis, PG
DATE(S) DRILLED: 3/22/2016

DRILLING INFORMATION

DRILLING COMPANY: HCI Drilling
DRILLING METHOD: Air Rotary
TOTAL DEPTH: 40 ft bgs
BORING DIAMETER: 6-inch WELL DIAMETER: 2-inch

TOP OF CASING ELEVATION: NM
GROUND ELEVATION: NM

N. LATITUDE	W. LONGITUDE
NA	NA

REMARKS: Soil cuttings logged at surface. Locking flush-mounted surface completion installed at well. Located at: 32.294933, -104.043757.

INITIAL WATER LEVEL IN WELL: 20 ft bgs

STATIC WATER LEVEL IN WELL: 21.00 ft btoc

DEPTH	LITHOLOGY	USCS	DESCRIPTION	SAMPLE ID	REC. %	WELL COMPLETION	INSTALLATION NOTES
0		SW	0-15' Sand with gravel, reddish brown, fine to medium grained, sub-rounded gravel (black and gray) up to 1-inch diameter. Dry.		100		
5			Color change to light brown from 5-15'. Increased gravel content.		100		Bentonite-cement grout from 0-14 ft bgs
10		SC			100		
15			15-20' Clayey Sand. Brown, fine grained, damp.		100		Bentonite from 14-24 ft bgs
20			20-40' Sandy clay and sand. Occasional gravel, brown, moist.		100		
25					100		20/40 Sand from: 24-36 ft bgs
30					100		Screen 0.01" slotted from 26-36 ft bgs
35							
40							

APPENDIX B

LABORATORY ANALYTICAL REPORTS

10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

March 29, 2016

Sam Enis
SQ Environmental
PO Box 1991
Austin, TX 78767

Work Order: **HS16031133**

Laboratory Results for: **Loving NM Well Install 1072.002.003**

Dear Sam,

ALS Environmental received 4 sample(s) on Mar 24, 2016 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031133

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16031133-01	MW-01	Water		22-Mar-2016 17:00	24-Mar-2016 10:20	☐
HS16031133-02	MW-02	Water		22-Mar-2016 17:30	24-Mar-2016 10:20	☐
HS16031133-03	MW-03	Water		23-Mar-2016 08:40	24-Mar-2016 10:20	☐
HS16031133-04	WW-01	Water		23-Mar-2016 09:20	24-Mar-2016 10:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental **CASE NARRATIVE**
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031133

WetChemistry by Method SW9056

Batch ID: R271422

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
ANALYTICAL REPORT
Project: Loving NM Well Install 1072.002.003 WorkOrder:HS16031133
Sample ID: MW-01 Lab ID:HS16031133-01
Collection Date: 22-Mar-2016 17:00 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A	**Method:SW9056**					Analyst: JBA
Chloride	**14,800**		**100**	**mg/L**	200	25-Mar-2016 23:04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
ANALYTICAL REPORT
Project: Loving NM Well Install 1072.002.003 WorkOrder:HS16031133
Sample ID: MW-02 Lab ID:HS16031133-02
Collection Date: 22-Mar-2016 17:30 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A	**Method:SW9056**					Analyst: JBA
Chloride	**2,010**		**50.0**	**mg/L**	100	26-Mar-2016 14:26

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
ANALYTICAL REPORT
Project: Loving NM Well Install 1072.002.003 WorkOrder:HS16031133
Sample ID: MW-03 Lab ID:HS16031133-03
Collection Date: 23-Mar-2016 08:40 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A	**Method:SW9056**					Analyst: JBA
Chloride	**11,300**		**100**	**mg/L**	200	26-Mar-2016 14:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
ANALYTICAL REPORT
Project: Loving NM Well Install 1072.002.003 WorkOrder:HS16031133
Sample ID: WW-01 Lab ID:HS16031133-04
Collection Date: 23-Mar-2016 09:20 Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A	**Method:SW9056**					Analyst: JBA
Chloride	**2,060**		**50.0**	**mg/L**	100	26-Mar-2016 15:10

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031133

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R271422	**Test Name :** ANIONS BY SW9056A			**Matrix:** Water		
HS16031133-01	MW-01	22 Mar 2016 17:00			25 Mar 2016 23:04	200
HS16031133-02	MW-02	22 Mar 2016 17:30			26 Mar 2016 14:26	100
HS16031133-03	MW-03	23 Mar 2016 08:40			26 Mar 2016 14:48	200
HS16031133-04	WW-01	23 Mar 2016 09:20			26 Mar 2016 15:10	100

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031133

QC BATCH REPORT

Batch ID: R271422 **Instrument: ICS3K2** **Method: SW9056**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
MBLK Sample ID: **WBLKW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:08**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625793** PrepDate: DF: **1**										
Chloride	ND	0.500								
LCS Sample ID: **WLCSW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:30**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625794** PrepDate: DF: **1**										
Chloride	19.79	0.500	20	0	99.0	80 - 120				
LCSD Sample ID: **WLCSDW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:52**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625795** PrepDate: DF: **1**										
Chloride	19.8	0.500	20	0	99.0	80 - 120	19.79	0.0152	20	
MS Sample ID: **HS16031138-02MS** Units: **mg/L** Analysis Date: **25-Mar-2016 15:50**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625802** PrepDate: DF: **1**										
Chloride	13.36	0.500	10	3.515	98.4	80 - 120				
MS Sample ID: **HS16031096-01MS** Units: **mg/L** Analysis Date: **25-Mar-2016 12:35**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625797** PrepDate: DF: **1**										
Chloride	26.24	0.500	10	16.34	99.0	80 - 120				
MSD Sample ID: **HS16031138-02MSD** Units: **mg/L** Analysis Date: **25-Mar-2016 16:12**										
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625803** PrepDate: DF: **1**										
Chloride	13.38	0.500	10	3.515	98.7	80 - 120	13.36	0.172	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031133

QC BATCH REPORT

Batch ID: R271422 **Instrument: ICS3K2** **Method: SW9056**

MSD Sample ID: **HS16031096-01MSD** Units: **mg/L** Analysis Date: **25-Mar-2016 12:57**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	26.27	0.500	10	16.34	99.4	80 - 120	26.24	0.149	20	

The following samples were anayzed in this batch: HS16031133-01 HS16031133-02 HS16031133-03 HS16031133-04

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: **HS16031133**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Illinois	003622	09-May-2016
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031133

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16031133-01	MW-01	Login	3/24/2016 7:25:06 PM	BHH	10C
HS16031133-02	MW-02	Login	3/24/2016 7:25:06 PM	BHH	10C
HS16031133-03	MW-03	Login	3/24/2016 7:25:06 PM	BHH	10C
HS16031133-04	WW-01	Login	3/24/2016 7:25:06 PM	BHH	10C

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Client Name: SQ ENVIRONMENTAL TX
Work Order: HS16031133
Date/Time Received: **24-Mar-2016 10:20**
Received by: **RPG**

Checklist completed by: *Baudelio Hernandez* eSignature 24-Mar-2016 Date
Reviewed by: *Dane J. Wacasey* eSignature 28-Mar-2016 Date

Matrices: **Water**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☐	No ☑	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6c / 4.2c u/c	IR#4	
Cooler(s)/Kit(s):	25268		
Date/Time sample(s) sent to storage:	03/24/2016 19:30		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Sample label time does not match COC, COC-17:30 Label-17:50. Logged per COC.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

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Chain of Custody Form

Page 1 of 1

COC ID: 139035

HS16031133

SQ Environmental

Loving NM Well Install 1072.002.003

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Loving, NM Well Installation
Work Order		Project Number	1072.002.003
Company Name	SQ Environmental	Bill To Company	SQ Environmental
Send Report To	Sam Enis	Invoice Attn	Susan Litherland
Address	PO Box 1991	Address	PO Box 1991
City/State/Zip	Austin	City/State/Zip	Austin
Phone		Phone	(281) 413-4266
Fax		Fax	
e-Mail Address	s.enis@sqenv.com	e-Mail Address	

A	Chloride 9056 - Soil
B	Moisture
C	Chloride 9056 - Water
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW-01	3-22-16	1700	water	8	1			X								
2	MW-02	3-22-16	1730						X								
3	MW-03	3-23-16	840						SE								X
4	~~MW-04~~ WW-01	3-23-16	920						X								
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Sam Enis

Shipment Method:

Required Turnaround Time: (Check Box) ☑ Std 10 WK days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 3-23-16	Time: 1400	Received by:	Notes:	
Relinquished by:	Date:	Time:	Received by (Laboratory): RG Sima 03/24/16 10:20		
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Cooler ID: 25268	Cooler Temp: 4°C / 3-6

QC Package: (Check One Box Below)
☐ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Row da ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

Rany CF 0.6

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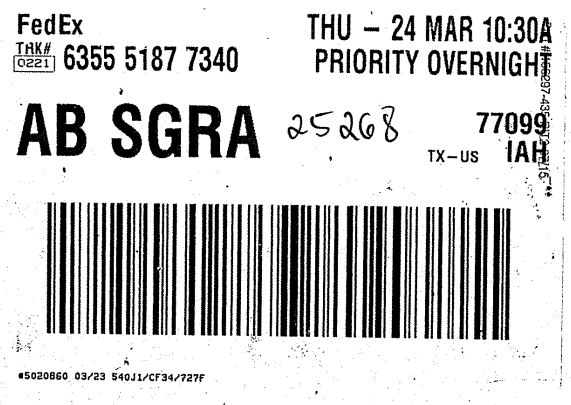
25268 MAR 2 4 2016



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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887
www.alsglobal.com

March 29, 2016

Sam Enis
SQ Environmental
PO Box 1991
Austin, TX 78767

Work Order: **HS16031130**

Laboratory Results for: **Loving NM Well Install 1072.002.003**

Dear Sam,

ALS Environmental received 1 sample(s) on Mar 24, 2016 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: Jumoke.Lawal
Dane J. Wacasey

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031130

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS16031130-01	SW-01	Water		23-Mar-2016 11:45	24-Mar-2016 10:20	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental **CASE NARRATIVE**
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031130

WetChemistry by Method SW9056

Batch ID: R271422

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
Sample ID: SW-01
Collection Date: 23-Mar-2016 11:45

ANALYTICAL REPORT
WorkOrder:HS16031130
Lab ID:HS16031130-01
Matrix:Water

ANALYSES	RESULT	QUAL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
ANIONS BY SW9056A	**Method:SW9056**					Analyst: JBA
Chloride	**1,170**		**20.0**	**mg/L**	40	25-Mar-2016 22:43

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031130

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R271422	**Test Name :** ANIONS BY SW9056A			**Matrix:** Water		
HS16031130-01	SW-01	23 Mar 2016 11:45			25 Mar 2016 22:43	40

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031130

QC BATCH REPORT

Batch ID: R271422 **Instrument: ICS3K2** **Method: SW9056**

MBLK Sample ID: **WBLKW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:08**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625793** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	ND	0.500								

LCS Sample ID: **WLCSW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:30**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625794** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.79	0.500	20	0	99.0	80 - 120				

LCSD Sample ID: **WLCSDW1-032516** Units: **mg/L** Analysis Date: **25-Mar-2016 11:52**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625795** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.8	0.500	20	0	99.0	80 - 120	19.79	0.0152	20	

MS Sample ID: **HS16031138-02MS** Units: **mg/L** Analysis Date: **25-Mar-2016 15:50**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625802** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	13.36	0.500	10	3.515	98.4	80 - 120				

MS Sample ID: **HS16031096-01MS** Units: **mg/L** Analysis Date: **25-Mar-2016 12:35**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625797** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	26.24	0.500	10	16.34	99.0	80 - 120				

MSD Sample ID: **HS16031138-02MSD** Units: **mg/L** Analysis Date: **25-Mar-2016 16:12**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625803** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	13.38	0.500	10	3.515	98.7	80 - 120	13.36	0.172	20	

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: HS16031130

QC BATCH REPORT

Batch ID: R271422 **Instrument: ICS3K2** **Method: SW9056**

MSD Sample ID: **HS16031096-01MSD** Units: **mg/L** Analysis Date: **25-Mar-2016 12:57**
Client ID: Run ID: **ICS3K2_271422** SeqNo: **3625798** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	26.27	0.500	10	16.34	99.4	80 - 120	26.24	0.149	20	

The following samples were anayzed in this batch: HS16031130-01

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
WorkOrder: **HS16031130**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	16-022-0	27-Mar-2017
California	2919	31-Jul-2016
Illinois	003622	09-May-2016
Kentucky	KY 2015-2016	30-Apr-2016
Louisiana	03087 2015/2016	30-Jun-2016
North Carolina	624 - 2016	31-Dec-2016
North Dakota	R-193 2015-2016	30-Apr-2016
Oklahoma	2015-047	31-Aug-2016
Texas	T104704231-15-15	30-Apr-2016

RIGHT SOLUTIONS | RIGHT PARTNER

Client: SQ Environmental
Project: Loving NM Well Install 1072.002.003
Work Order: HS16031130

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS16031130-01	SW-01	Login	3/24/2016 6:47:10 PM	BHH	10C

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Client Name: SQ ENVIRONMENTAL TX
Work Order: HS16031130
Date/Time Received: **24-Mar-2016 10:20**
Received by: **RPG**

Checklist completed by: *Baudelio Hernandez* eSignature 24-Mar-2016 Date
Reviewed by: *Dane J. Wacasey* eSignature 28-Mar-2016 Date

Matrices: **Water**
Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
TX1005 solids received in hermetically sealed vials?	Yes ☐	No ☐	N/A ☑
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Temperature(s)/Thermometer(s):	3.6c / 4.2c u/c	IR#4	
Cooler(s)/Kit(s):	25268		
Date/Time sample(s) sent to storage:	03/24/2016 18:55		
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: 0 Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

ALS Environmental

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Chain of Custody Form

Page 1 of 1

COC ID: 139033

HS16031130

SQ Environmental

Loving NM Well Install 1072.002.003

ALS Project Manager:

Customer Information		Project Information	
Purchase Order		Project Name	Loving, NM Well Installation
Work Order		Project Number	1072.002.003
Company Name	SQ Environmental	Bill To Company	SQ Environmental
Send Report To	Sam Enis	Invoice Attn	Susan Litherland
Address	PO Box 1991	Address	PO Box 1991
City/State/Zip	Austin	City/State/Zip	Austin
Phone		Phone	(281) 413-4266
Fax		Fax	
e-Mail Address	s.enis@sqenv.com	e-Mail Address	

A	Chloride 9056 - Soil
B	Moisture
C	Chloride 9056 - Water
D	
E	
F	
G	
H	
I	
J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SW-01	3-23-16	1145	water	8	1	X (SE)		X								
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Sam Enis

Shipment Method

Required Turnaround Time: (Check Box) ☐ Std 10 WK days ☐ 5 WK Days ☐ 2 WK Days ☐ 24 Hour ☐ Other

Results Due Date:

Relinquished by:	Date: 3-23-16	Time: 1400	Received by:	Notes:
Relinquished by:	Date:	Time:	Received by (Laboratory): RG Sima 03/24/16 10:20	
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

Cooler ID	Cooler Temp.
25268	3.6

QC Package: (Check One Box Below)
☐ Level 2 Std QC ☐ TRRP ChkList
☐ Level 3 Std QC/Row da ☐ TRRP Level 4
☐ Level 4 SW846/CLP
☐ Other/EDD

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

IRM4 CF0-6

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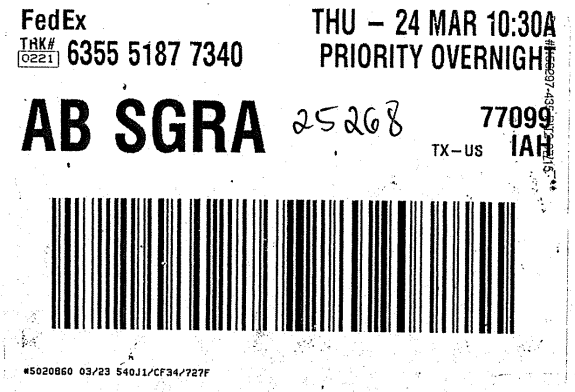
25268 MAR 2 4 2016



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