Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

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SITE CLOSURE REPORT (RP No. 1791)

STATE G LEASE AND ADJACENT ABANDONED TANK BATTERY UNITS I & J, SECTION 9, TOWNSHIP 14 SOUTH, RANGE 33 EAST LEA COUNTY, NEW MEXICO

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1.0 <u>INTRODUCTION</u>

This Site Closure Report (the "Report") is intended to demonstrate the merits of closure for two closely associated produced petroleum fluids release sites: The State G Lease (Site A) and the Adjacent Abandoned Tank Battery (Site B). This Report describes soil assessment and remedial excavation activities performed in 2012. These activities were conducted by Conestoga-Rovers & Associates (CRA), on behalf of Chevron Environmental Management Company (CEMC). Soil borings were advanced at Site A to further define the vertical extent of chloride impacts to soils. Remedial excavation activities were performed at both sites to remove hydrocarbon impacted soils.

The State G Lease (Site A) is located along Highway 457, approximately 13.7 miles north of the intersection of Highway 457 with US Highway 82, in Lea County, New Mexico. Site A also is located in Unit I, Section 9, Township 14 South, Range 33 East, and at coordinates 33° 07′ 04″ north latitude and 103° 36′ 49″ west longitude (see Figure 1A). A standing "dry hole" marker on Site A locates the plugged and abandoned (P&A′d) State G #1 well. This marker identified the operator of the lease as Tamarack Petroleum Company, Inc. Another standing marker identifies the location of a second P&A′d well designated Eclipse Oil & Gas, Inc. State G SWD #1 - also on Site A. That salt water disposal (SWD) well was associated with a 500 barrel (bbl) storage tank, which had been dismantled and removed.

The Adjacent Abandoned Tank Battery (Site B) is located approximately 730 feet west of Site A, on the east-west trending oilfield lease road abutting both sites. (Note that this oilfield lease road deadends into Highway 457 approximately 0.1 mile east of Site A, and this road is the main access to both sites.) Site B is in Unit J, Section 9, Township 14 South, Range 33 East, and at coordinates 33° 07′ 01″ north latitude and 103° 36′ 57″ west longitude (see Figure 1B). Site B was an abandoned tank battery with three tanks of unknown capacity and two heater-treaters, all of which have been dismantled and removed. A Site Details Map is provided as Figure 2.

Sites A and B are located in relatively flat, sandy and dry topography with some gently-rolling hills. The general area is rural rangeland, but numerous oil and gas production facilities dot the landscape. Native range grasses and scattered mesquite hummocks are the predominate ground cover. No surface water is mapped within a one-mile radius of either Site A or Site B. And no water well or windmill is located within 1,000 feet of either site.

CRA identified Section 9, T14S, R33E – the section containing Sites A and B -- on OCD's "Pit Rule Web Mapping Portal". A single groundwater supply well was mapped in Section 9, at the virtual center of the section. This well was designated "L04391", and its

depth to groundwater (DTW) was listed as 110 feet¹. It is notable that Unit J – the 40-acre lot containing Site B corners on the center of the section where the water well is located. Therefore, it is reasonable to deduce that the depth to groundwater at Site B and also at Site A is approximately 110 feet.

Site A is located on property owned by the State of New Mexico. The New Mexico State Land Office (SLO) is the agency charged with management of these State lands. Chevron currently is the operator on the subject property, having leasehold from the State of New Mexico titled "State Trust SWD-032 Business Lease". Chevron is reported to be the successor in interest to Gulf Oil Company on this lease. Historical records indicate the last active operator of the lease was Eclipse Oil and Gas, Inc. (Eclipse). Therefore, response to environmental impacts to the property arguably would be the responsibility of Eclipse. However, CRA understands Eclipse is now a defunct entity, through bankruptcy. Therefore, SLO would look to the current leaseholder, Chevron, to affect remediation of impacts to the property.

Site B is located on a private surface estate reported to be owned in fee by Mr. Norman Hahn.

Previous reports submitted to OCD covering this project identified the depth to groundwater as being between 70 and 80 feet bgs. These depths were inferred from the New Mexico Office of the State Engineer and the Interstate Stream Commission document titled "New Mexico Water Resource Atlas", dated December 2002. Borings were advanced at Site A to a maximum depth of 85 feet bgs during these investigations; and no boring at Site A or Site B encountered Groundwater -- even at 85 feet.

2.0 <u>REGULATORY FRAMEWORK</u>

The New Mexico Oil Conservation Division (OCD) exercises regulatory jurisdiction over oil and gas production operations in New Mexico. OCD's jurisdiction extends to regulating assessment and remediation of spills and releases of produced fluids – *e.g.*, crude oil and brines. This project was conducted under the regulatory guidance of the OCD, which requires hydrocarbon-affected soils to be remediated such that the potential for future affects to groundwater or the environment are minimized. The OCD cleanup levels are determined on a site-by-site basis, and are based on ranking criteria outlined in the OCD publication titled "*Guidelines for Remediation of Spills, Leaks, and Releases*", dated August 13, 1993 (the "1993 Guidelines"). These ranking criteria guidelines are based on three site characteristics, consisting of 1) depth–to-groundwater (from base of affected soil), 2) well head protection radius distance (useable water sources), and 3) distance to surface water. The characteristics for a given site then define the Recommended Remediation Action Levels-Soils (RRALs) for specific contaminants of concern.

The table below illustrates the ranking criteria used by OCD. Entries in the tables reflect site-specific characteristics for the State G Lease sites:

CHARACTERISTIC	SELECTION	SCORE
Depth to Groundwater ²	>100 feet	0
Well head Protection Area	>1,000 feet	0
Distance to Surface Water	>1,000 feet	0

RANKING CRITERIA AND SCORING

Total Score = 0

SOIL RECOMMENDED REMEDIATION ACTION LEVELS (RRALS)

CONTAMINANT OF CONCERN	>19 SCORE	10-19 SCORE	0-9 SCORE
Benzene (mg/kg)	10	10	10
Total BTEX (mg/kg)	50	50	50
Total TPH (mg/kg)	100	1,000	5,000

Based on the site characteristics and the 1993 Guidelines, Sites A and B have a ranking score of zero. Consequently, RRALs of 10 mg/kg for benzene, 50 mg/kg for total

² The depth to groundwater in a nearby water supply well was measured to be 110 feet bgs.

benzene, toluene, ethylbenzene, and total xylenes (BTEX), and 5,000 mg/kg for total petroleum hydrocarbons (TPH) were adopted as remediation targets at Sites A and B.

Note that the 1993 Guidelines specify no RRALs for chloride (Cl⁻) concentrations.

3.0 HISTORY OF THE SITES

Chevron received a notification letter dated May 10, 2005 from SLO detailing a leaking storage tank at Site A. The SLO requested CEMC to conduct a Site inspection and apply appropriate corrective action measures. On May 23, 2005, CEMC submitted a New Mexico Oil Conservation Division form titled *Release Notification and Corrective Action Form C-141* to OCD's Hobbs District Office. The C-141 form reported an estimated two barrels of produced fluids released.

CRA and CEMC personnel conducted a Site visit on June 10, 2005 to evaluate surface impacts at Site A, noting surface staining at an above-ground storage tank (AST) onsite (see Figure 3A). During the Site visit, an abandoned tank battery with visible surface soil staining also was discovered west of Site A approximately 570 feet – at Site B (see Figure 3B). Operations at this adjacent abandoned tank battery were reported to be a component of the State G Lease at Site A. Although the Site B location was not addressed in the SLO correspondence referenced previously, CEMC voluntarily elected to evaluate surface impacts at the Site B location as part of the soil assessment activities planned for Site A.

3.1 <u>AUGUST 24, 2005 SAMPLING EVENT</u>

Soil assessment activities were performed on August 24, 2005. The following describes those soil assessment activities and summarizes findings:

Using air-rotary methods at Site A, White Drilling Company advanced three soil borings in the vicinity of the former tank battery where surface staining indicated a release (see Figure 3A). Soil boring SB-1 was advanced to 21 feet bgs; SB-2 was advanced to 26 feet bgs; and SB-3 was advanced to 31 feet bgs. A total of nine soil samples were collected at various depths from the three borings at Site A. The samples were screened by photoionization detector (PID) measurements of hydrocarbon vapor concentration.

In similar fashion and on even date, White Drilling Company also advanced two soil borings at Site B. The two borings were drilled where surface staining indicated a release of crude oil (see Figure 3B). Both borings SB-1 and SB-2 were advanced to 21-feet bgs. As at Site A, boring depths and locations were selected to maximize the opportunity to fully delineate the vertical and horizontal extent of hydrocarbon and chloride impacts. Seven soil samples, including a duplicate sample, were collected from varying depths within the two borings at Site B. The samples were screened by PID measurements of hydrocarbon vapor concentration. Also, a background sample of surface soil was collected in the vicinity of Site B.

The nine samples collected from Site A and the eight samples collected from Site B were submitted to Pace Analytical Services, Inc. laboratory (Pace), Saint Rose, Louisiana for analyses. These samples were analyzed for concentrations of the following ³:

- Benzene, toluene, ethylbenzene and total xylenes (BTEX), by EPA Method 8021B.
- Total petroleum hydrocarbons (TPH), specified as DRO-diesel range organics (C10-C28) and GRO-gasoline range organics (C6-C10), by EPA Method 8015 Mod.
- Chlorides (Cl⁻), by EPA Method 325.2.

Results from these laboratory analyses for Site A and Site B are presented in Tables I and II, respectively. Detections in bold print on the tables indicate concentrations above analytical quantification limits, and highlighted detections represent concentrations exceeding the OCD RRALs. OCD has not established recommended remediation action levels for chloride concentrations.

Results of the BTEX analyses are discussed in the following:

No sample submitted to the laboratory from Site A or Site B exhibited concentration results for total BTEX or for any BTEX constituent exceeding RRALs. The following results were reported by the laboratory for Site A: SB-2 [1-2 ft. bgs] registered concentrations of toluene, total xylenes and total BTEX above analytical quantification limits (see Figures 5A and 6A). And the following results were reported for Site B: Both SB-1 [1-2 ft. bgs] and SB-2 [1-2 ft. bgs] registered concentrations of ethylbenzene, total xylenes and total BTEX above analytical quantification limits (see Figures 5B and 6B). No BTEX was detected at or below the 5-6 ft. bgs interval at either Site A or Site B – confirming the very limited BTEX contamination to be confined to the upper five feet of the soil profile at both locations.

TPH exceedances and chloride analyses are discussed in the following:

- Total TPH was detected above RRALs in three samples: One shallow sample SB-2 [1-2 ft. bgs]) at Site A; and two shallow samples (SB-1 [1-2ft. bgs] and SB-2 [1-2 ft. bgs]) at Site B. No total TPH RRALs exceedances were registered at or below the 5-6 ft. bgs interval at either Site A or Site B -- confirming TPH contamination to be confined to the upper five feet of the soil profile at both locations.
- Chloride concentrations were detected above analytical quantification limits in all nine samples collected from Site A. The chloride concentrations ranged from

³ The background sample collected at Site B was analyzed only for chloride (Cl⁻) concentration.

731 mg/kg in SB-3 [30-31 ft. bgs] to 7,470 mg/kg in SB-1 [1-2 ft. bgs]. Four of the seven boring samples, including the duplicate sample, collected from Site B exhibited concentrations above analytical quantification limits. Concentrations of chloride in the borings ranged from less than 250 mg/kg in SB-1 [20-21 ft. bgs] and SB-2 [20-21ft. bgs] to 1,310 mg/kg in SB-1 [5-6 ft. bgs]. The background sample concentration was reported by the laboratory to be less than 250 mg/kg.

In summary, the analytical results demonstrate regulated concentrations of hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B. However, elevated chloride concentrations were present at depth at Site A.

A report titled *Soil Assessment Report and Soil Remediation Workplan* was submitted to OCD and SLO in February 2006 detailing these assessment activities and results. That report proposed excavation activities at Sites A and B. OCD subsequently requested that separate C-141 forms be submitted for Sites A & B. The new C-141 forms were submitted in October 2007. OCD followed by issuing RP #1791 for the State G Lease. No separate "RP" number was ever provided by OCD for Site B.

3.2 JUNE 10, 2008 SAMPLING EVENT

In response to OCD evaluations and comment, a follow-up soil remediation workplan, dated July 3, 2007, was submitted to OCD and SLO. Activities proposed in the workplan included:

- Excavate and remove hydrocarbon-impacted soil exhibiting concentrations above the RRALs at Site A and Site B.
- As requested by OCD, advance an additional soil boring to 50 feet bgs at Site A to further evaluate the vertical extent of chloride impacts.

Following approval of the workplan by OCD, CRA mobilized to Site A on June 10, 2008 and installed the additional soil boring to a total depth of 50 feet bgs. It was advanced in immediate proximity to the SB-1 soil boring at Site A - which exhibited the highest chloride concentrations in previous, shallower investigations. Discrete soil samples were collected at 5-foot intervals for the first 40 feet bgs. Samples from 40 to 50 feet bgs were collected at continuous 2-foot intervals to more conclusively evaluate the vertical extent of chloride impacts at depth.

The 13 soil samples collected from the 50-feet deep boring were submitted to TestAmerica Laboratories, Houston, Texas, for determination of chloride concentrations,

by Method SW-846 9056. Chloride concentrations ranged downward in the profile from 3,550 mg/kg in the sample collected at the 5-foot depth to 1,250 mg/kg at the 50-foot depth - thus exhibiting a decreasing pattern with depth (see laboratory data report in Appendix C, which is incorrectly labeled as SB-4). As requested, these analytical results were reported to OCD via email – no report was generated incorporating findings from this 50-feet-deep boring at Site A. The following tabulates the chloride concentrations reported by the laboratory for the 13 collected soil samples:

SAMPLE DEPTH	CHLORIDE
(FT. BGS)	CONCENTRATION
	(MG/KG)
5	3,550
10	3,780
15	4,580
20	2,360
25	2,040
30	1,390
35	2,200
40	1,930
40 - 42	1,460
42 - 44	1,500
44 - 46	990
46 - 48	1,070
48 - 50	1,250

50-FEET DEEP BORING - CHLORIDE DATA

OCD responded with comments, requiring more borings at Site A to further delineate chloride impacts vertically. At Site A and Site B, OCD also stated clay or synthetic liners would be required on the floor of the hydrocarbon excavations prior to backfilling.

4.0 <u>SITE CLOSURE ACTIVITIES IN 2012</u>

On November 22, 2011, an updated report was submitted to OCD, titled *Updated Soil Assessment and Soil Remediation Workplan*. Additional soil borings were proposed at Site A to delineate the vertical extent of chloride impacts. Excavations at Sites A and B again were proposed to remove hydrocarbon-stained surface soils, with the addition of installing synthetic liners on the floor of the excavations prior to backfilling. The work plan was approved by OCD in December 2011.

Prior to commencement of field activities, a site-specific health and safety plan (HASP) was developed by CRA. During field activities, CRA and all subcontractors onsite conducted daily tailgate safety meetings, including discussions of hazards associated with the work tasks to be performed. CRA notified both OCD and the landowner, Norman Hahn, 48-hours prior to commencing field activities.

4.1 BORING INSTALLATION AND SOIL SAMPLING

Following approval of the work plan, four soil boring locations at Site A were marked (see Figure 3). The utilities locating service was notified, and all utilities present in the area of anticipated surface intrusion were identified and marked.

On February 24, 2012, a soil boring was advanced at each of the four marked locations at Site A (see Figure 3). Using air-rotary methods, White Drilling Company installed soil borings SB-4, SB-5, SB-6 and SB-7. Each of the four borings was within the former tank battery spill area. SB-4, SB-5, and SB-6 were advanced to 80 feet bgs, while soil boring SB-7 was advanced to 85 feet bgs. As with all previous borings at Sites A and B, groundwater was not encountered in any of these four deepest borings. By examining drill cuttings, CRA continuously recorded lithology data on a boring log for each location. Copies of the Well Record and Logs are in Appendix A ⁴, and copies of the Soil Boring Logs are located in Appendix B.

A total of 64 discrete soil samples were collected at 5-foot intervals in each of the four soil borings at Site A – 16 samples from each boring. Half of each sample was enclosed in a Zip-Loc® bag; and the other half was containerized in a labeled, laboratory-supplied sample jar. Each bagged sample was allowed sufficient time for any petroleum hydrocarbon contamination to evolve volatile organic compounds (VOCs). At that point a headspace vapor concentration reading was obtained for each

⁴ The four (4) "Well Record & Log" report forms provided by White Drilling Company for SB-4, SB-5, SB-6 and SB-7 mistakenly designated the borings SB-2, SB-3, SB-4 and SB1a, respectively.

sample with a photo-ionization detector (PID). However, no PID reading exceeded zero for any of the 64 samples.

The jarred soil samples were placed immediately on ice in insulated coolers, chilling them to a temperature of approximately 4° C (40° F). The 64 samples were submitted to Xenco Laboratories, Inc. (Xenco), Odessa, Texas for analyses. Proper chain-of-custody documentation accompanied the samples. Xenco determined the chloride (Cl⁻) concentration in each soil sample by EPA Method 300. Copies of the certified analytical reports, chain-of-custody documentation, and detailed case narratives describing holding times are attached in Appendix C.

After drilling and soil sampling activities were completed, the borings were permanently plugged with a bentonite/grout mixture to prevent subsurface impacts by surface runoff.

4.2 <u>CHLORIDE (CL⁻) ASSESSMENT AT SITE A</u>

Results of chloride analyses for the 64 soil samples collected in the four soil borings at Site A are presented in Table I. The chloride concentration-by-depth trends for each of the soil borings are in Appendix D.

The following summarizes findings from these chloride contamination assessments:

- Chloride concentrations registered a marked decreasing trend with depth in SB-5, SB-6, and SB-7.
- Concentrations of chloride in SB-4 increased with depth in a narrow and low range, to a high of 414 mg/kg at the 70 to 75 feet interval. At the 75 to 80 feet interval, the concentration exhibits a decreasing trend. The overall pattern of chloride concentrations in SB-4 is very different from the pattern in the other three borings; and no readings in SB-4 approach the highest levels in the other three borings. The sum of chloride concentrations in SB-4 also was significantly less than in any of the other three borings. This suggests this boring was advanced at a point outside the major brine spill location. Therefore, possible threats to groundwater are minimal at this boring location.
- The deepest depth interval for which soil samples were analyzed was the 75 to 80 feet depth bgs. A soil sample was analyzed for the 75 to 80 feet interval in each of the four borings: SB-4, SB-5, SB-6 and SB-7. The average for the chloride concentrations in the four samples collected at the 75 to 80 feet depth was <u>231 mg/Kg</u>. Considering that the depth to groundwater in this general area is 110 feet bgs as indicated by the water supply well designated "L04391", which is

located in the same mapping unit (Unit "J") as Site B – a threat to groundwater from the brine spill at Site A is unlikely.

4.3 <u>EXCAVATION OF HYDROCARBON-CONTAMINATED SOILS AT</u> <u>SITE A AND SITE B</u>

As discussed previously, soil borings were installed at Site A and Site B on August 24, 2005. The analytical results from samples collected in these borings demonstrated that regulated concentrations of hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B; thus the vertical extent of the hydrocarbon-impacted soils was delineated to a depth of 5 feet or less.

Excavation activities at Sites A and B commenced July 9 and continued through July 18, 2012. Site excavation activities were performed by Entact, LLC (Entact), Friendswood, Texas, supervised by CRA. All excavated hydrocarbon-contaminated soil was placed in roll-off boxes. The horizontal extents of the two excavation sites are depicted in Figure 4.

Confirmation samples of soils were collected from the sidewalls and floors throughout These the excavation process. samples were containerized in labeled, laboratory-supplied jars. The jarred soil samples were placed immediately on ice in insulated coolers, chilling them to a temperature of approximately 4°C (40° F). The seven samples each from Sites A and B were submitted to Xenco Laboratories, Inc., Odessa, Texas for analyses. Proper chain-of-custody documentation accompanied the samples. For each soil sample Xenco determined the TPH, specified as DRO-diesel range organics (C10-C28) and GRO-gasoline range organics (C6-C10), by EPA Method 8015B Mod. Results were reported on a dry-weight basis. These data are tabulated on Table III. Copies of the certified analytical reports, chain-of-custody documentation, and detailed case narratives describing holding times are attached in Appendix C.

Approximately 52 cubic yards of hydrocarbon-contaminated soil had been excavated from Site A when competent rock was encountered at 2.5 to 3 feet bgs. At this juncture, the TPH concentration at the north floor of Site A (6,980 mg/kg) was above the OCD RRALs of 5,000 mg/kg. Similarly, competent rock was encountered at 2.5 to 3 feet bgs following excavation of 20 cubic yards of hydrocarbon-contaminated soil from Site B. Also, oilfield piping limited horizontal excavation at Site B. On July 17, 2012, Mr. Geoffrey Leking with OCD was consulted concerning the limitations on further excavation encountered at Sites A and B. He advised that further excavation was not necessary at either site.

Following this determination by OCD, synthetic liners were installed on the floor of the excavation at Site A and Site B. Clean topsoil was obtained from a neighboring landowner and trucked to the sites. Atop the synthetic liners, the two pits were backfilled with clean topsoil in compacted lifts to grade. Approximately 65 cubic yards and 35 cubic yards were used to backfill Site A and Site B, respectively. Final grading of construction-related surface areas was performed to mitigate wind erosion and facilitate re-vegetation.

The roll-off boxes containing the excavated hydrocarbon-contaminated soils were trucked to Sundance Service (Sundance), Eunice, New Mexico as a non-DOT-regulated material. The contaminated soils were disposed as RCRA-exempt waste at Sundance – a Chevron-approved waste facility. The bills of lading for the trucking are attached as Appendix E.

5.0 <u>SUMMARY OF FINDINGS</u>

The following findings of these investigations support a decision on the part of the Oil Conservation Division to grant closure for Sites A and B at the State G Lease:

- The depth to groundwater in the general area of Sites A and B is 110 feet bgs as indicated by the water supply well designated "L04391", which is located in the same mapping unit (Unit "J") as Site B. Site A is located in an adjacent mapping unit (Unit "I")
- Four soil borings, designated SB-4, SB-5, SB-6 and SB-7, were installed within the • spill area at Site A. SB-4, SB-5, and SB-6 were advanced to 80 feet bgs, while soil boring SB-7 was advanced to 85 feet bgs. As with all previous borings at Sites A and B, groundwater was not encountered in any of these four borings. Chloride concentrations registered a marked decreasing trend with depth in SB-5, SB-6, and SB-7. Concentrations of chloride in SB-4 increased with depth in a narrow and low range, to a high of 414 mg/kg at the 70 to 75 feet interval. At the 75 to 80 feet interval the concentration exhibits a decreasing trend. The overall pattern of chloride concentrations in SB-4 is very different from the pattern in the other three borings; and no readings in SB-4 approach the highest levels in the other three borings. The sum of chloride concentrations in SB-4 also was significantly less than in any of the other three borings. This suggests this boring was advanced at a point outside the major brine spill location. Therefore, possible threats to groundwater are minimal at this boring location.
- A soil sample was analyzed at the 75 to 80 feet interval at Site A in each of the four borings SB-4, SB-5, SB-6 and SB-7. The average for the chloride concentrations in these samples was <u>231 mg/Kg</u>⁵. The water table potentiometric surface in this general area is approximately 30 feet deeper (at 110 feet bgs) than the depth from which these samples were collected. This suggests that a threat to groundwater from the brine spill at Site A is vanishingly small. This conclusion is supported further by OCD's proposed 2011 remediation guidelines which would call for a chloride cleanup target of 250 mg/Kg in this circumstance.
- Soil borings were installed at Site A and Site B in 2005 to explore the horizontal and vertical extent of petroleum hydrocarbon impacts to soils. It was demonstrated in these investigations that regulated concentrations of petroleum hydrocarbons (TPH) were present only in the upper 5 feet of the profile at both Site A and Site B.

⁵ It is reasonable to average these data points, because the boring locations form a closely-spaced quadrangle spanning the brine-impacted area. This roughly spaced quadrangle is approximately 42 feet by 67 feet (42' X 67') on its sides (see Figure 3). This close spacing among sampling points supports averaging analytical results at a specific depth.

- Commencing in July, 2012, hydrocarbon-contaminated soil was excavated from Site A until competent rock was encountered at 2.5 to 3 feet bgs. At this juncture, the TPH concentration at the north floor of Site A (6,980 mg/kg) was above the OCD RRALs of 5,000 mg/kg. Similarly, competent rock was encountered at 2.5 to 3 feet bgs during excavation of hydrocarbon-contaminated soil at Site B. Also, oilfield piping limited horizontal excavation at Site B. On July 17, 2012, Mr. Geoffrey Leking with OCD was consulted concerning the limitations on further excavation encountered at Sites A and B. He advised that further excavation was not necessary at either site. Thus, OCD concluded at that point in time that adequate removal of hydrocarbon-impacted soils at the two sites had been affected.
- Following this determination by OCD, synthetic liners were installed on the floor of the excavations at Site A and Site B. Clean topsoil was obtained from a neighboring landowner and trucked to the sites. The two pits were backfilled, atop the synthetic liners, with clean topsoil installed in compacted lifts to grade. This completed remediation of hydrocarbon-impacted soils at Site A and Site B, thus completing OCD-approved closure activities at Site A and Site B.

Based on these findings, CRA recommends closure of the State G Sites A and B.

All of Which is Respectfully Submitted, CONESTOGA-ROVERS & ASSOCIATES

Hoy Bryson, DF, PG Senior Environmental Scientist

Thomas Clayon

Thomas C. Larson Midland Operations Manager

FIGURES

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SLR



042079 SLR 011206



042079-00(006)GN-DL001 DEC 15/2012



042079-00(006)GN-DL001 DEC 15/2012







042079-00(006)GN-DL001 DEC 15/2012









TABLES

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TABLE I

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY SITE A NEW MEXICO STATE "G" TANK BATTERY LEA COUNTY, NEW MEXICO

			Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TOTAL BTEX	TP	H (8015B Modifi	ied)	Chlorides
Sample ID	Depth (feet)	Sample Date			-	-		DRO	GRO	(GRO/DRO)	
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			NMOCD Reco		diation Action Le					5,000	
			10 mg/kg	 mg/kg	 mg/kg	 mg/kg	50 mg/kg	 mg/kg	 mg/kg	5,000 mg/kg	 mg/kg
SB-1	(1-2)	8/24/05	<0.025	< 0.025	< 0.025	< 0.025	< 0.025	1,320	<2.5	1,320	7,470
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	14.4	<2.5	14.4	1,490
	(20-21)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	<10.0	<2.5	<10.0	4,020
SB-2	(1-2)	8/24/05	< 0.025	0.204	< 0.025	0.441	0.645	8,090	20,000	28,090	2,450
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	113	<2.5	113	2,040
	(25-26)	8/24/05	< 0.025	< 0.025	< 0.025	<0.025	< 0.025	< 0.010	<2.5	<2.5	1,840
SB-3	(1-2)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	990	<2.5	990	4,090
	(10-11)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	12.6	<2.5	12.6	830
	(30-31)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.010	<2.5	<2.5	731
SB-4	(0-5)	2/24/12									18.9
	(5-10)	2/24/12									24.3
	(10-15)	2/24/12									70.6
	(15-20)	2/24/12									96.2
	(20-25)	2/24/12									158
	(25-30)	2/24/12									204
	(30-35)	2/24/12									314
	(35-40)	2/24/12									333 357
	(40-45) (45-50)	2/24/12 2/24/12									326
	(40-50)	2/24/12									320
	(55-60)	2/24/12									279
	(60-65)	2/24/12									291
	(65-70)	2/24/12									371
SB-4	(70-75)	2/24/12									414
	(75-80)	2/24/12									395
SB-5	(0-5)	2/24/12									365
	(5-10)	2/24/12									189
	(10-15)	2/24/12									437
	(15-20)	2/24/12									868
	(20-25)	2/24/12									990
	(25-30)	2/24/12									627
	(30-35)	2/24/12									414
	(35-40)	2/24/12									411
	(40-45)	2/24/12									373
	(45-50)	2/24/12									380
	(50-55)	2/24/12									641
	(55-60) (60-65)	2/24/12 2/24/12									500 463
	(65-70)	2/24/12									398
	(70-75)	2/24/12									428
	(75-80)	2/24/12									365
SB-6	(0-5)	2/24/12									1,110
	(5-10)	2/24/12									1,530
	(10-15)	2/24/12									1,170
	(15-20)	2/24/12									965 1.040
	(20-25)	2/24/12									1,040
	(25-30) (30-35)	2/24/12 2/24/12									857 886
	(30-35) (35-40)	2/24/12 2/24/12									934
	(40-45)	2/24/12 2/24/12									934 716
3-6 (Cont.)	(45-50)	2/24/12									297
. (25)	(50-55)	2/24/12									209
	(55-60)	2/24/12									10.2

TABLE I

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMENT COMPANY SITE A NEW MEXICO STATE "G" TANK BATTERY LEA COUNTY, NEW MEXICO

6 1			Benzene	Toluene	Ethyl-Benzene	Total Xylenes	TOTAL BTEX	TP	H (8015B Modi	fied)	Chlorides
Sample ID	Depth (feet)	Sample Date	Denzene	1 otuene	Linyi-Denzene	Totut Aytenes	IOIAL BILX	DRO	GRO	(GRO/DRO)	Chiornies
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
	NMOCD Recommended Remediation Action Levels (Total Ranking Score = 0)										
			10				50			5,000	
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	(60-65)	2/24/12									97
	(65-70)	2/24/12									31
	(70-75)	2/24/12									18.2
	(75-80)	2/24/12									18.1
SB-7	(0-5)	2/24/12									432
	(5-10)	2/24/12									832
	(10-15)	2/24/12									1,650
	(15-20)	2/24/12									1,500
	(20-25)	2/24/12									1,460
	(25-30)	2/24/12									1,080
	(30-35)	2/24/12									980
	(35-40)	2/24/12									972
	(40-45)	2/24/12									1,000
	(45-50)	2/24/12									975
	(50-55)	2/24/12									1,310
	(55-60)	2/24/12									1,190
	(60-65)	2/24/12									1,040
	(65-70)	2/24/12									348
	(70-75)	2/24/12									164
	(75-80)	2/24/12									154

Notes:

1. BTEX analyses by EPA Method 8021B 2. TPH analyzed by EPA Method 8015B Mod 3. Chlorides analyzed by EPA Method 325.2

Chorace analyzed by Er A method 325.2
Bold concentrations above lab reporting limits
Highlighted cells indicated concentrations above RRALs

TABLE II

SOIL ANALYTICAL SUMMARY CHEVRON ENVIRONMENTAL MANAGEMMENT COMPANY SITE B ADJACENT ABANDONED TANK BATTERY LEA COUNTY, NEW MEXICO

S annala		Samula	Benzene	Toluene	Ethyl-	Total	TOTAL	TPH	(8015B Mod	lified)	Chlorides	
Sample ID	Depth (feet)	Sample Date	Denzene	Totuene	Benzene	Xylenes	BTEX	DRO	GRO	(GRO/DRO)	Chioriues	
		Dute	(mg/kg)	(mg/kg)	(mg/kg)							
NMOCD Recommended Remediation Action Levels (Total Ranking Score = 0)												
			10				50			5000		
			mg/kg	mg/kg	mg/kg							
SB1	(1-2)	8/24/05	< 0.025	< 0.025	0.193	0.416	0.609	25,100	23,300	48,400	<1000	
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	145	<2.5	145	1,310	
	(20-21)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	15.3	<2.5	15.3	<250	
SB2	(1-2)	8/24/05	< 0.025	< 0.025	0.141	0.793	0.934	5,730	30,200	<u>35,930</u>	317	
	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	253	<2.5	253	584	
Duplicate	(5-6)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	331	<2.5	331	693	
	(20-21)	8/24/05	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.010	<2.5	<2.5	<250	
Background		8/24/05	NS	NS	<250							

Notes:

- 1. BTEX analyses by EPA Method 8021B.
- 2. TPH analyzed by EPA Method 8015B Mod.
- 3. Chlorides analyzed by EPA Method 325.2
- 4. Bold concentrations above lab reporting limits.
- 5. Highlighted cells indicated concentrations above RRALs
- 6. NS Not sampled

Page 1 of 1

TABLE III

SOIL ANALYTICAL SUMMARY CEMC EXCAVATION SITE A AND B NEW MEXICO STATE G TANK BATTERY LEA COUNTY, NEW MEXICO

				TI	РН (8015В Мо	Percent	
Sample ID	Date	Depth	Chlorides	DRO	GRO	(GRO/DRO)	Moisture
		(feet)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(%)
Site A - NW Wall	7/10/2012	0-2.5	1,210	941	<17.0	941	11.9
Site A - NE Wall	7/10/2012	0-2.5	377	925	<16.3	925	8.15
Site A - SW Wall	7/11/2012	0-2.5	685	1410	<83.3	1410	10.3
Site A - SW Wall	7/13/2012	0-2.5	2,820	548	<15.9	548	5.95
Site A - SE Wall	7/11/2012	0-2.5	1,190	272	<18.5	272	19.2
Site A - N Floor	7/11/2012	0-2.5	1,470	6980	<97.5	6980	23.2
Site A - S Floor	7/11/2012	0-2.5	794	598	<17.4	598	14
Site B - NW Wall	7/11/2012	0-2.5	78.1	809	<16.7	809	10.1
Site B - NE Wall	7/11/2012	0-2.5	53.2	1710	<82.7	1710	9.77
Site B - NE Wall	7/13/2012	0-2.7	40	1020	<16.0	1020	6.22
Site B - SW Wall	7/11/2012	0-2.5	293	2940	18.5	2958.5	7.83
Site B - SW Wall	7/13/2012	0-2.6	430	1060	19.5	1060	6.14
Site B - SE Wall	7/11/2012	0-2.5	106	820	<17.1	820	12.5
Site B - Floor	7/11/2012	0-2.5	111	580	25.4	605.4	12.3

Notes:

1. TPH analyzed by EPA Method 8015B Mod.

2. Bold concentrations above lab reporting limits.

3. Highlighted cells indicate concentrations above RRALs.

APPENDICES

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APPENDIX A

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WELL RECORD & LOG

MAY 19 2012 Midland

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ION	POD NUME	BER (WEL	ll NU	MBER)						OSE FILE NUN	IBER(S)			
GENERAL AND WELL LOCATION	WELL OWN			mental Man	ageme	nt Co.				PHONE (OPTIC	DNAL)			
TTT	WELL OWN				00.44					CITY STATE				ZIP 002
EW C	1400 31	niur Si	., п	IDU 140/19						Houston		ТХ		002
LAN	WELL LOCATI		1 4 T	ITUDE	DEGRI	33	MINUTES 7	SECC	1.90 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	COND	
IERA	(FROM G	GPS)		GITUDE	1	03	36		8.70 W	* DATUM REC	QUIRED: WGS 84			<i>a</i>
1. GEN	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS State G													
	(2,5 ACF	RE)		(10 ACRE)	(40 .	ACRE)	(160 AC	'RE)	SECTION		TOWNSHIP	NORTH	RANGE	🖌 EAST
IAL		/4		1⁄4		1/4		1⁄4		9	14	✓ SOUTH	33	U WEST
OPTIONAL	SUBDIVISION NAME LOT NUM							ÍBER	BLOCK NUMBER		UNIT/TRA	ст & J		
2.0	HYDROGR	APHIC SU	JRVE	Y							MAP NUMBER		TRACT NU	JMBER
	LICENSE N			NAME OF LICE		LLER					NAME OF WELL DE			
	WD-1456 John W. White DRILLING STARTED DRILLING ENDED DEPTH OF COMPLETED WELL (FT) BORE HO										White Drilling	••••		
Z		24/12	5	02/24/12		12 12 La			le depth (FT) 30.0	DEPTH WATER FIF	Dry			
MATIC	COMPLETED WELL IS: ARTESIAN					DRY HOLE	SHALI	.OW (UNC	ONFINED)		STATIC WATER LE	vel in com Dry		LL (FT)
(FOF	DRILLING	FLUID:		✓ AIR		MUD	ADDIT	IVES – SPI	ECIFY:			ž.		
NG IV	DRILLING	METHOD):	ROTARY		HAMMER	CABLE	E TOOL	OTHE	ER – SPECIFY:				
3. DRILLING INFORMATION	DEPT FROM	H (FT) TO	1	BORE HOL DIA. (IN)	E	CASING MATERIAL			CONNECTION TYPE (CASING)		INSIDE DIA. CASING (IN)	and the state of the state of the	G WALL IESS (IN)	SLOT SIZE (IN)
3.]										£				
			_											1
-	The second second second	H (FT)		THICKNES	S	F					ATER-BEARING S			YIELD (GPM)
WATER BEARING STRATA	FROM	TO	_	(FT)			(INCLUDE	WATER	-BEARING	CAVITIES OF	R FRACTURE ZON	(ES)		(GPM)
GST			-											
RIN											·	44) 1		
BEA											the second se	9	<u>></u>	11
TER	METHODI	ISED TO	FSTIN	MATE YIELD OF	WATER-B	FARING STR	ATA				TOTAL ESTIMATEI	WELL VIEL	D (GPM)	1.
4. WA	METHOD			and need of	WALEN-D	CARING STR				1.	TOTAL LOLIMATEL	- ALLE TIEL	(W 10)	

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

UMP	TYPE O	F PUMP:	SUBMEI		☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPEL ☐ OTHER – SPECIFY:)			
SEAL AND PUMP	ANN	ULAR	DEP1'H FROM	H (FT) TO	BORE HOLE DIA. (IN)				OD OF EMENT	
5. SEAL		. AND EL PACK	80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand	d Mix	
	DEPT FROM	H (FT)	THICK			COLOR AND TYPE OF MATERIAL ENCOUN IDE WATER-BEARING CAVITIES OR FRAC		1	TER UNG?	
	0.0	16.0	16	-		Caliche.		YES	☑ NC	
	16.0	78.0	62			Light brown sand.				
	78.0	80.0	2.			Light brown sand w/gravel.				
							······	VES		
T								T YES	□ NO	
WEL								YES	🗖 NO	
OF								T YES	D NO	
DOG								T YES	🗖 NO	
GEOLOGIC LOG OF WELL								🗖 YES	🗖 NC	
DLO(T YES	🗖 NC	
								Tes Ves	🗖 NC	
6.								T YES	🗖 NO	
								T YES	D NO	
								The second secon		
								The YES		
				· · · · · · · · · · · · · · · · · · ·						
				LADDITIO				☐ YES	D NC	
			T			EDED TO FULLY DESCRIBE THE GEOLOG	IC LOG OF THE WELL			
AL INFO	WELI	L TEST	METHOD: TEST RESU	BAILI	ACH A COPY OF D	AIR LIFT OTHER – SPECIFY:	, INCLUDING START T	IME, END T	IME,	
			AND A TAI	BLE SHOW	ING DISCHARGE /	AND DRAWDOWN OVER THE TESTING PER	NOD.			
7. TEST & ADDITION	ADDITIO	NAL STATE	MENTS OR EXP <u>1</u>	ANATIONS:						
	THE UN	DERSIGN	FDHERERY	CEBLIER	ΤΗΑΤ ΤΟ ΤΗΓ ΒΕ	ST OF HIS OR HER KNOWI FDGE AND BEI	IFF THE FOREGOING			
URE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATHE PERMIT HOLDER WITHIN 00 DAYS AFTER COMPLETION OF WELL DRILLING:									
ΙЧ	1	4.	~ ##L	and the second s	pa.,	4/20/2012				
8. SIGNATURE						4/20/2012				

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WELL RECORD & LOG

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7	POD NUMBER	R (WELL N	UMBER)				OSE FILE NUM	(BER(S)				
LIO	SB-3 WELL OWNER	D MANE/C	<u>.</u>				PHONE (OPTIC	DNAL)				
GENERAL AND WELL LOCATION				agement Co.								
TLC	WELL OWNER						CITY		STATE		ZIP	
VEL	1400 Smi	th St.,	HDU 140/19	00-1A			Houston		ΤX	770	002	
A O	WELL			DEGREES	MINUTES SECC	ONDS						
LA	LOCATION	N LA	ATITUDE	33	7	1.90 N		REQUIRED: ONE TEN	TH OF A SEC	OND		
ERA	(FROM GPS	S) LC	DNGITUDE	103	36 4	8.70 W	* DATUM REC	UIRED: WGS 84				
GEN	DESCRIPTIO	N RELATI	ING WELL LOCATI	ON TO STREET ADDRE	SS AND COMMON LAND	MARKS			· · · · · · · · · · · · · · · · · · ·			
÷	State G											
	(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE		
L.	1/4	,	1/4	1/4	1/4		9	14	NORTH	33	EAST	
OPTIONAL	SUBDIVISION	N NAME			L	LOT NUM	4BER	BLOCK NUMBER		UNIT/TRAC		
ITG											& J	
2. C	HYDROGRAI	PHIC SUR	VEY					MAP NUMBER		TRACT NU	MBER	
								L		[
	LICENSE NU WD-1		John W. V	ENSED DRILLER				NAME OF WELL DE				
	DRILLING ST		DRILLING EN		IPLETED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FU		-		
7	02/24		02/24/1				80.0		Dry	,		
LIO								STATIC WATER LE	VEL IN COM	PLETED WEL	L (FT)	
(MA	COMPLETED	WELL IS		N 📝 DRY HOLE	E SHALLOW (UNC	CONFINED)	Dry					
3. DRILLING INFORMATION	DRILLING FI	LUID:	🖌 AIR	MUD	ADDITIVES – SP	ECIFY:						
G IN	DRILLING M	ETHOD:	🗸 ROTARY	HAMMER	CABLE TOOL	ОТН	ER - SPECIFY:					
TIN	DEPTH	I (FT)	BORE HO	LE	CASING		NECTION	INSIDE DIA.		G WALL	SLOT	
DRII	FROM	TO	DIA. (IN)N	IATERIAL	TYPE	(CASING)	CASING (IN)	THICK	NESS (IN)	SIZE (IN)	
Э.												
									-			
	DEPTH	L(FT)	THOVNE	ee	FORMATION DESCRI	PTION OF I	PRINCIPAL W	ATER-BEARING	STRATA		YIELD	
ΓA	FROM	TO	THICKNE (FT)	00	(INCLUDE WATE)	R-BEARING	G CAVITIES C	R FRACTURE ZO	NES)		(GPM)	
LRA'												
GS												
NRIN								and the group of the second se	1			
BE									<u>.</u>	1		
TER	METHODUS	SED TO E9		F WATER-BEARING ST	RATA			TOTAL ESTIMATE	D WELL YIE	LD (GPM)	L	
4. WATER BEARING STRATA	METROD 0	56D 10 E3	TIMATE HEDD U.	, and the plantic of						. *		
4												
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UMP	TYPE O	F PUMP:	U SUBMER		☐ JET ☐ CYLINDER	□ NO PUMP WELL NOT EQUIPPEI □ OTHER SPECIFY:	·		
AND PUMP	ANNU	TLAD	DEPTH FROM	I (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METH PLACE	
5. SEAL	SEAL AND GRAVEL PACK		80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand	d M
	DEPTI	H (FT)		NIEGO		COLOR AND TYPE OF MATERIAL ENCOU	TEDED		
	FROM	то	(F)			IDE WATER-BEARING CAVITIES OR FRAC		WA BEAF	
	0.0	16.0	16	.0		Caliche.		The YES	6
	16.0	78.0	62	.0		Light brown sand.		□ YES	6
	78.0	80.0	2.	0		Light brown sand w/gravel.		T YES	
								T YES	L
ILL								The YES	Ľ
F WE								YES	
G 01								T YES	
CLO									
DGIC								VES	
GEOLOGIC LOG OF WELL								VES	
6. GI									L
								VES	
									 C
								T YES	Ľ
	·····							☐ YES	٦
		I	ATTACH	ADDITION	NAL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOG	IC LOG OF THE WELL	I	
			METHOD:	BAIL	ER 🗍 PUMP	AIR LIFT OTHER – SPECIFY:			
AL INFO	WELL	. TEST				ATA COLLECTED DURING WELL TESTING AND DRAWDOWN OVER THE TESTING PE		IME, END T	IME
ADDITIONA	ADDITION	VAL STATE	MENTS OR EXPL						
7. TEST & Al									
SIGNATURE	CORREC	CT RECOR	D OF THE AE	BOVE DESC	RIBED HOLE AND	ST OF HIS OR HER KNOWLEDGE AND BEI) THAT HE OR SHE WILL FILE THIS WELL)N OF WELL DRILLING:			
				K		4/20/2012			
%			SIGNATUR	F OF DRI	LER	DATE			

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NO	POD NUMB	BER (WEL	L NUMBI	ER)			<u></u>	OSE FILE NUM	ABER(S)				
GENERAL AND WELL LOCATION	WELL OWN		· ·	ntal Man	agement Co.			PHONE (OPTIC	ONAL)				
T T	WELL OWN							СІТҮ	*****	STATE		ZIP	
WEI	1400 Sn	nith Si	t., HDL	J 140/19	D0-1A			Houston		тх	77	002	
	WELL				DEGREES	MINUTES S	ECONDS			······			
ALA	LOCATI	L	LATITUI	DE	33	7	1.90 N		REQUIRED: ONE TEN	TH OF A SEC	COND		
NER	(FROM G	iPS)	LONGIT	UDE	103	36	48.70 W	* DATUM REG	QUIRED: WGS 84			P. C.	
I. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS State G												
	(2.5 ACR	E)	(10 A	ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP	NORTH	RANGE	🖌 EAST	
AL	1/	4		1⁄4	1/4	1⁄4		9	14	SOUTH	33	WEST	
OPTIONAL	SUBDIVISION NAME LOT NUM								BLOCK NUMBER		UNIT/TRA	ст & J	
2.0	HYDROGRAPHIC SURVEY								MAP NUMBER TRACT NUMBER			IMBER	
	LICENSE N	UMBER	NA	ME OF LICE	NSED DRILLER				NAME OF WELL DE	RILLING COM	4PANY		
		1456		hn W. W					White Drilling	· · · · · · · · · · · · · · · · · · ·	-		
	DRILLING	startei 2 4/12		02/24/12	i i	PLETED WELL (FT)		LE DEPTH (FT) 30.0	DEPTH WATER FIR	ST ENCOUN Dry			
ION	02/2	.4/12		02/24/12	-			50.0	STATIC WATER LE	•		L (FT)	
RMAT	COMPLETE	ED WELL	. IS:	ARTESIAN	✓ DRY HOLE	SHALLOW (U	JNCONFINED)	Dry					
NFO	DRILLING	FLUID:		AIR	MUD	ADDITIVES -	- SPECIFY:						
[DN	DRILLING	METHOD): 🔽	ROTARY	HAMMER	CABLE TOOI	. 🗌 отні	ER - SPECIFY:					
DRILLING INFORMATION	DEPT FROM	H (FT) TO		BORE HOL DIA. (IN)		CASING ATERIAL		NECTION (CASING)	INSIDE DIA. CASING (IN)		G WALL IESS (IN)	SLOT SIZE (IN)	
3.													
		H (FT)		THICKNES	S F				ATER-BEARING S			YIELD (GPM)	
STRATA	FROM	то		(FT)		(INCLUDE WAT	ER-BEARING	CAVITIES O	R FRACTURE ZON	(ES)		(GPWI)	
NG ST													
ARI													
R BE										line e contra de la contra de la Line de la contra de			
WATER BEARING	METHOD U	JSED TO	ESTIMAT	E YIELD OF	WATER-BEARING STR.	ATA			TOTAL ESTIMATEI	O WELL YIEL	.D (GPM)		
4.													

FOR OSE INTERNAL USE		WELL RECORD & LOG	(Version 6/9/08)
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LOCATION			PAGE 1 OF 2

~	TYPE O	F PUMP:	SUBMEI			NO PUMP – WELL NOT EQUIPPED)		
M			TURBIN	IE	CYLINDER	OTHER – SPECIFY:	- -		
SEAL AND PUMP	A NINI	ULAR	DEPTH (FT) FROM TO		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT	
IAL	SEAL	AND	80.0	0.0	6.0	Bentonite Pellets	23 sacks	Hand	l Mix
5. SE	GRAVE	L PACK							
	DEPT FROM	H (FT) TO	THICK (F			OLOR AND TYPE OF MATERIAL ENCOUN DE WATER-BEARING CAVITIES OR FRAC		WA' BEAR	
	0.0	16.0	16			Caliche		YES	☑ NO
	16.0	78.0	62			Light brown sand.		□ YES	 ☑ NO
	78.0	80.0	2.			Light brown sand w/gravel.			
					-				
VELI					-				
GEOLOGIC LOG OF WELL									
0 0 0			<u> </u>					□ YES	
CL	-				•			□ YES	 או []
00								T YES	
EOI								□ YES	
6.9									
								VES	
								T YES	
					-			VES	
								T YES	
								T YES	
		1	ATTACH	H ADDITION	AL PAGES AS NEE	DED TO FULLY DESCRIBE THE GEOLOG	IC LOG OF THE WELL		
			METHOD:	BAIL	ER PUMP	AIR LIFT OTHER - SPECIFY:			
NFO	WELL	_ TEST				TA COLLECTED DURING WELL TESTING	INCLUDING START	TIME END T	ME
AL I						ND DRAWDOWN OVER THE TESTING PER		, <u>E</u> , E, E	,
ADDITIONAL INFO	ADDITION	NAL STATE	MENTS OR EXPI	LANATIONS:					
DIT									
& AD									
7. TEST									
`					······				
Æ						T OF HIS OR HER KNOWLEDGE AND BEL THAT HE OR SHE WILL FILE THIS WELL			
TUF	THE PE	RMIT HOI	DER WITTIN	N TO DAYS A	AFTER COMPLETIO	N OF WELL DRILLING;	ALCOND WITH HIE 3	ATA DE L'ENGLIN.	CENT FUN
SIGNATURE		<			afr.	4/20/2012			
8. SI			87	nr.or	I ED				
	ł		SI€iNATÉD	RE OF DRIL	LEK	DATE			

FOR OSE INTERNAL USE		WELL RECORD & LOG (Version 6/9/08)			
FILE NUMBER	POD NUMBER	TRN NUMBER			
LOCATION			PAGE 2 OF 2		



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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	POD NUMB	BER (WE	LL NU	MBER)				OSE FILE NUM	ABER(S)			
GENERAL AND WELL LOCATION	SB-1a											
CAT	WELL OWN		• •	nontal Man	agement Co.			PHONE (OPTI	ONAL)			
TO	WELLOWN							CITY		STATE		ZIP
ELI				DU 140/19	00-1A			Houston		TX	77	002
DW					DEGREES	MINUTES SECO	ONDS	1				
AN.	WELL LOCATIO				33		1.90 N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SEC	COND	
RAI	(FROM G			11UDE	103		8.70 W		QUIRED: WGS 84			
ENE	DECODIDT			GITUDE		SS AND COMMON LAND						<u> </u>
1. G	State G			J WELL LUCAT	ON TO STREET ADDRE	SS AND COMMON LAND	MARKS					
	(2.5 ACR	LE)	((10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP	NORTH	RANGE	🗸 east
AL	2	4		1⁄4	1/4	1/4		9	14	SOUTH	33	west
2. OPTIONAL	SUBDIVISI	ON NAM	Œ				LOT NUM	IBER	BLOCK NUMBER		UNIT/TRA	
OPT	INCOROL	- NRO A										& J
5.	HYDROGR	APHIC S	UKVE	Ŷ					MAP NUMBER		TRACT NU	MBEK
	LICENSE N	UMBER		NAME OF LICE	INSED DRILLER			NAME OF WELL DE	RILLING COM	I IPANY		
	WD-	1456		John W. W	/hite				White Drilling	Compar	iy, Inc.	
	DRILLING		D	DRILLING ENE		PLETED WELL (FT)		LE DEPTH (FT)	DEPTH WATER FIF		· ·	
NO	02/2	24/12		02/24/12	2		8	35.0		Dry		
DRILLING INFORMATION	COMPLETE	ED WELI	L 1S:	ARTESIAN	DRY HOLE	SHALLOW (UNC	ONFINED)		STATIC WATER LE	vel in com Dry		.L (FT)
NFOI	DRILLING	FLUID:		✓ AIR	MUD	ADDITIVES - SP	ECIFY:					
NG IL	DRILLING	METHO	D:	ROTARY	HAMMER	CABLE TOOL	🗌 отна	R - SPECIFY:				
LLIN	DEPT	H (FT)		BORE HOL	E	CASING	CON	NECTION	INSIDE DIA.	CASING	3 WALL	SLOT
DRII	FROM	TC)	DIA. (IN)	M	ATERIAL	TYPE	(CASING)	CASING (IN)	THICKN	IESS (IN)	SIZE (IN)
3.												
										+		
¥.	FROM	H (FT) TC		THICKNES (FT)	S F	ORMATION DESCRIF (INCLUDE WATER						YIELD (GPM)
RAJ	11000	10	,			,						、 ,
S												
SUNC												
EAL									5. 			
ER F												
4. WATER BEARING STRATA	METHOD U	JSED TO	ESTIN	ATE YIELD OF	WATER-BEARING STR	ATA			TOTAL ESTIMATEI	D WELL YIEL	.D (GPM)	
	FOR OSE		DNIAT	USE					WELL RECO		(Voraion 6)	20/08)

TORODE INTERINE 03E		WELL RECORD & LOG	
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION		-	PAGE 1 OF 2

	TYPE O	F PUMP:	SUBMEI		☐ JET ☐ CYLINDER	☐ NO PUMP – WELL NOT EQUIPPED ☐ OTHER – SPECIFY:			
			DEPTI	H (FT)	BORE HOLE	MATERIAL TYPE AND SIZE	AMOUNT	METH	OD OF
	ANNI	JLAR	FROM	ТО	DIA. (IN)	MATERIAL TYPE AND SIZE	(CUBIC FT)	PLACE	EMENT
	SEAL GRAVE		85.0	0.0	6.0	Bentonite Pellets	25 sacks	Hand	d Mix
;									
	DEPTI	H (FT)	THICK	NESS		OLOR AND TYPE OF MATERIAL ENCOUN	TERED	317.4	TER
ł	FROM	ТО	(F		-	DE WATER-BEARING CAVITIES OR FRAC			RING?
ŀ	0.0	16.0	16	.0	······································	Caliche.		☐ YES	🗹 NO
	16.0	78.0						☐ YES	
	78.0	85.0	7.	0		Light brown sand w/gravel.		☐ YES	🗹 NO
Ī								YES	🗖 NO
						A A A A A A A A A A A A A A A A A A A		T YES	🗖 NO
								YES	🗖 NO
5								T YES	🗖 NC
							đ	T YES	🗖 NC
								T YES	🗖 NG
								T YES	D NC
								☐ YES	🗖 NC
;								T YES	🗖 NC
								☐ YES	D NC
								☐ YES	🗆 NC
								The YES	D NC
								T YES	
								☐ YES	🗖 NO
			ATTACH	I ADDITION	IAL PAGES AS NEE	DED TO FULLY DESCRIBE THE GEOLOGI	C LOG OF THE WELL		
2	WCL	TROT	METHOD:	🔲 BAILI	R DPUMP	AIR LIFT OTHER – SPECIFY:			
	WELL	, IESI	TEST RESU	/LTS - ATT/ BLE SHOWI	CH A COPY OF DA'	TA COLLECTED DURING WELL TESTING ID DRAWDOWN OVER THE TESTING PER	, INCLUDING START 1	TIME, END T	IME,
	ADDITION	AL STATE	MENTS OR EXPL						
									2
5									
:						Angeneting and the part of the			
	CORREC	CT RECOR	D OF THE AB	SOVE DESC	RIBED HOLE AND 7	I' OF HIS OR HER KNOWLEDGE AND BEL FHAT HE OR SHE WILL FILE THIS WELL F N OF WELL DRILLING:	IEF, THE FOREGOING RECORD WITH THE ST	IS A TRUE A ATE ENGIN	IND EER AND
			-4	K	900°.	4/20/2012			
ā			SIGNATUR			······································			

FOR OSE INTERNAL USE		WELL RECORD & LC	G (Version 6/9/08)
FILE NUMBER	POD NUMBER	TRN NUMBER	
LOCATION			PAGE 2 OF 2

APPENDIX B

.

						SOIL	B	DRING L	00)						
Project: Client:	42079 CEMC						No.	SB-4			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/20 White I Bo Atki Air Rot Desiree	Drilling ns		
			TEST DAT	^				DATA		1			BORING			
			ed in mg/kg						_	ŋ			DURING	DATA		
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Interv	Start Time:	9:50 a	m	Finish Time	: 10:00 am	
- - - -					18.9	0		- 5			Caliche					
- - -					24.3	0	X	- 10								
- - - -					70.6	0	X	- 15								
- - - -					96.2	0	X				Light brown sa	and				
- - - -					158	0	X	- 25								
- - - -					204	0	X	- 30								
- - -					314	0	X	- 35								
- - -					333	0	$\left \right\rangle$	40								
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	iferre ased	ed And May No	t be I ual F	Exac	t. Idure				Water First Note	
									S						page 1 of	2

						SOIL	BC	DRING L	00)						
Project: Client:	42079 CEMC						No.	SB-5			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/20 White I Bo Atki Air Rot Desiree	Drilling Ins		
	LAB	ORATORY	TEST DAT	A		FIF	ID'	DATA		Ι			BORING			
			ed in mg/kg							val			Dorario	<i>Dittil</i>		
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Inter		10:20 a	am	Finish Time	: 10:38 am	
					365	0	X	- 5			Caliche					
- - - -					189	0	X	- 10								-
- - - -					437	0	X	- 15								-
- - - -					868	0	X	_ 20			Light brown sa	and				- - - -
- - -					990	0	X	- 25								-
- - - -					627	0	X	- 30								-
- - -					414	0	X	- 35								-
- - - -					411	0	X	40								-
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	iferre ased	ed And May No	t be I ual F	Exac Proce	t. dure				Water First No Analyzed Sam	
									S						page 1 d	of 2

						SOIL	BC	DRING L	00)					
Project: Client:	42079 cemc					I	No.	SB-6			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:	42079 2/24/20 White I Bo Atk Air Rot Desire	Drilling ins		
			TEST DAT			FIE	LD I	DATA				BORING	G DATA		
	Res	ults Report	ed in mg/ko			Photo-	g		vel	erval					
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	lonization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Inte	Start Time:	10:40 am	Finish Time	: 11:04 am	
- - - -					716	0	M	- 45							
					297	0	X	- 50							
					209	0	X	- 55							
					10.2	0	X	- 60			Light Brown Sand				
					97	0	X	- 65							
- - -					31	0	X	- 70							
- - -					18.2	0	M	- 75							
- - - -					18.1	0	X	80			Light Brown San	d with gra Total	vel Depth = 80	feet	
	Sampling	Interval			So	Stratification is Ir bil Classification B	nferre ased	ed And May No	t be I ual F	Exact Proce	t. dure			Water First Note	
									Q					page 1 of	2

						SOIL	BC	DRING L	00	ì				
Project: Client:	42079 CEMC						No.	SB-7			File No.: Date: Drilling Co.: Supervisor: Type Rig: Logged by:		42079 2/24/2012 White Drilling Bo Atkins Air Rotary Desiree Crenshaw	
	LAB	ORATORY	TEST DAT	A		FIE	LD	DATA					BORING DATA	
			ed in mg/kg							val				
Benzene	Toluene	Ethyl- benzene	Xylenes	Total TPH (C6-C35)	Chlorides	Photo- Ionization Detection Reading (ppm)	Sampling	Depth (feet)	Water Level	Screen Inter	Start Time:	9:10 an	n Finish Time: 9:41 am	
-					432	0	X	- 5			Caliche			
- - - -					832	0	X	- 10						-
- - - -					1,650	0	X	- 15						-
- - -					1,500	0	X				Light brown sa	and		
- - -					1,460	0	X	- 25						-
- - -					1,080	0	\mathbb{N}	- 30						-
- - -					980	0	$\left \right\rangle$	- 35						-
- - - -					972	0	$\left \right\rangle$	40						-
	Sampling	Interval			So	Stratification is Ir bil Classification Bi	nferre	ed And May No	t be I ual F	Exac Proce	t. dure		Water First No Analyzed San	
									\mathbf{i}				page 1	of 2

APPENDIX C

ANALYTICAL REPORT

JOB NUMBER: 355329 Project ID: STATE G LEASE NM 042079

Prepared For:

Conestoga-Rovers and Associates 2135 S. Loop 250 West Midland, TX 79707

Attention: Todd Wells

Date: 06/26/2008

Signature

- Name: Sachin G. Kudchadkar
- Title: Project Manager III
- E-Mail: sachin.kudchadkar@testamericainc.com

Date

TestAmerica Laboratories, Inc 6310 Rothway Drive Houston, TX 77040

PHONE: 713-690-4444

SAMPLE INFORMATION Date: 06/26/2008

Job Number.: 355329Project Number....: 99007835Customer...: Conestoga-Rovers and AssociatesCustomer Project ID....: STATE G LEASE NM 042079Attn.....: Todd WellsProject Description...: Analytical

Laboratory Sample ID	Customer Sample ID	Sample Matrix	Date Sampled	Time Sampled	Date Received	Time Received
355329-1	SB-4 5'	Soil	06/02/2008	14:45	06/10/2008	09:35
355329-2	SB-4 10'	Soil	06/02/2008	14:50	06/10/2008	09:35
355329-3	SB-4 15'	Soil	06/02/2008	14:55	06/10/2008	09:35
355329-4	SB-4 20'	Soil	06/02/2008	15:00	06/10/2008	09:35
355329-5	SB-4 25'	Soil	06/02/2008	15:05	06/10/2008	09:35
355329-6	SB-4 30'	Soil	06/02/2008	15:10	06/10/2008	09:35
355329-7	SB-4 35'	Soil	06/02/2008	15:15	06/10/2008	09:35
355329-8	SB-4 40'	Soil	06/02/2008	15:20	06/10/2008	09:35
355329-9	SB-4 40-42'	Soil	06/02/2008	14:25	06/10/2008	09:35
355329-10	SB-4 42-44'	Soil	06/02/2008	14:30	06/10/2008	09:35
355329-11	SB-4 44-46'	Soil	06/02/2008	14:35	06/10/2008	09:35
355329-12	SB-4 46-48'	Soil	06/02/2008	15:40	06/10/2008	09:35
355329-13	SB-4 48-50'	Soil	06/02/2008	15:45	06/10/2008	09:35

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 5' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:45 Sample Matrix....: Soil Laboratory Sample ID: 355329-1 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	3 MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	3550			40	10	mg/Kg	400631		06/23/08 1533	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 10' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:50 Sample Matrix....: Soil Laboratory Sample ID: 355329-2 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	3780			40	10	mg/Kg	400631		06/23/08 1620	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 15' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:55 Sample Matrix....: Soil Laboratory Sample ID: 355329-3 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	4580			40	10	mg/Kg	400631		06/23/08 1636	sur
l											

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 20' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:00 Sample Matrix....: Soil Laboratory Sample ID: 355329-4 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	2360			40	10	mg/Kg	400631		06/23/08 1651	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 25' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:05 Sample Matrix....: Soil Laboratory Sample ID: 355329-5 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	2040			40	10	mg/Kg	400631		06/23/08 1707	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 30' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:10 Sample Matrix....: Soil Laboratory Sample ID: 355329-6 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAG	5 MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1390			40	10	mg/Kg	400631		06/23/08 1723	sur
					ĺ		İ				

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 35' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:15 Sample Matrix....: Soil Laboratory Sample ID: 355329-7 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	2200			40	10	mg/Kg	400631		06/23/08 1809	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID:	SB-4 40'
Date Sampled:	06/02/2008
Time Sampled:	15:20
Sample Matrix:	Soil

Laboratory Sample ID: 355329-8 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECI
SW-846 9056	Chloride, Soil	1930			40	10	mg/Kg	400631		06/23/08 1825	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 40-42' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:25 Sample Matrix....: Soil Laboratory Sample ID: 355329-9 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1460			40	10	mg/Kg	400631		06/23/08 1841	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 42-44' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:30 Sample Matrix....: Soil Laboratory Sample ID: 355329-10 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TEC
SW-846 9056	Chloride, Soil	1500			40	10	mg/Kg	400631		06/23/08 1856	5 sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 44-46' Date Sampled.....: 06/02/2008 Time Sampled.....: 14:35 Sample Matrix....: Soil Laboratory Sample ID: 355329-11 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	990			40	10	mg/Kg	400714		06/24/08 1923	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID: SB-4 46-48' Date Sampled.....: 06/02/2008 Time Sampled.....: 15:40 Sample Matrix....: Soil Laboratory Sample ID: 355329-12 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	Q FLAGS	MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1070			40	10	mg/Kg	400714		06/24/08 2010	sur

Job Number: 355329

Date:06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

PROJECT: STATE G LEASE NM 04

ATTN: Todd Wells

Customer Sample ID:	SB-4 48-50'
Date Sampled:	06/02/2008
Time Sampled:	15:45
Sample Matrix:	Soil

Laboratory Sample ID: 355329-13 Date Received.....: 06/10/2008 Time Received.....: 09:35

TEST METHOD	PARAMETER/TEST DESCRIPTION	SAMPLE RESULT	QFL	AGS MDL	RL	DILUTION	UNITS	BATCH	DT	DATE/TIME	TECH
SW-846 9056	Chloride, Soil	1250			40	10	mg/Kg	400714		06/24/08 2026	sur

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

Test Method Method Descrip Parameter	ption.: Ion	Chromatography	Analysis	Units Batch(s)	Analyst: sur Test Code.: BRO					
QC Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result	* Limits	F	Date	Time
ICV	WCS50001	19.624		20.00		98.1	90.0-110.		06/23/2008	
ICB		0							06/23/2008	
MB 40063121		0		~~ ~~			~~ ~ ~ ~ ~		06/23/2008	
LCS 40063121	WCS50001	19.799		20.00	0 1 2 0 0	99.0	90.0-110.		06/23/2008	
DU 355329-1	110010000	0.1361		10,00000	0.1322	0.0039	0.6000		06/23/2008	
MS 355329-1	WCS49722	9.9655		10.000000	0.1322	98.3	90-110		06/23/2008	
CCV CCB	WCS50001	19.760 0		20.00		98.8	90.0-110.		06/23/2008	
		-			0.3493	0.0258	0.6000		06/23/2008	
DU 355497-4 MS 355497-4	WCS49722	0.3235 10.218		10.000000	0.3493	98.7	90-110		06/23/2008 06/23/2008	
CCV	WCS49722 WCS50001	19.903		20.00	0.3493	98.7 99.5	90.0-110.		06/23/2008	
CCB	WCSJUUUI	0		20.00		99.5	90.0-110.		06/23/2008	
MB 40063121		0							06/23/2008	
LCS 40063121	WCS50001	19.820		20.00		99.1	90.0-110.		06/23/2008	
DU 355529-1	WCDDOUDI	0		20.00	0	0	1		06/23/2008	
MS 355529-1	WCS49722	9.6678		10.000000	0	96.7	90-110		06/23/2008	
CCV	WCS50001	19.841		20.00	0	99.2	90.0-110.		06/23/2008	
CCB		0							06/24/2008	
CCV	WCS50001	19.613		20.00		98.1	90.0-110.		06/24/2008	
CCB		0							06/24/2008	
CCV	WCS50001	19.870		20.00		99.3	90.0-110.		06/24/2008	
CCB		0							06/24/2008	0625
BK		0							06/24/2008	0712
BK		0							06/24/2008	0743
BK		0							06/24/2008	0815
BK		0							06/24/2008	0846
CCV	WCS50001	19.710		20.00		98.5	90.0-110.		06/24/2008	0902
CCB		0							06/24/2008	091
ICV	WCS50001	20.015		20.00		100.1	90.0-110.		06/24/2008	1820
ICB		0							06/24/2008	
MB 40071421		0							06/24/2008	
LCS 40071421	WCS50001	19.666		20.00		98.3	90.0-110.		06/24/2008	
DU 355329-11		0.0558			0	0.0558	0.6000		06/24/2008	
MS 355329-11		9.8441		10.000000	0	98.4	90-110		06/24/2008	
CCV	WCS50001	19.660		20.00		98.3	90.0-110.		06/24/2008	
CCB		0							06/24/2008	
DU 355908-1	1100 1000	0		10,00000	0	0	1		06/24/2008	
MS 355908-1	WCS49722	9.4824		10.000000	0	94.8	90-110		06/25/2008	
CCV	WCS50001	19.798		20.00		99.0	90.0-110.		06/25/2008	
CCB		0 19.629		20.00		00 1	00 0 110		06/25/2008	
CCV	WCS50001	19.629		20.00		98.1	90.0-110.		06/25/2008	
CCB		0			0	0	1		06/25/2008	
DU 356027-2	WCC/0722	-	0	10 00000	0 0		1		06/25/2008	
MS 356027-2	WCS49722 WCS50001	9.3677 19.592	U	10.000000	U	93.7 98.0	90-110 90.0-110.		06/25/2008	
CCV	MCSOUDT	19.592		20.00		90.0	90.0-TTO.		06/25/2008	0502

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter: Chloride			Units Batch(s)	Analyst: sur Test Code.: CHL						
QC Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
ICV	WCS50001	19.455		20.00		97.3	90.0-110.	_	06/23/2008	1430
ICB		0							06/23/2008	
MB 40063121		0							06/23/2008	
LCS 40063121	WCS50001	19.705		20.00		98.5	90.0-110.		06/23/2008	
DU 355329-1		35.203			35.530	0.9	20		06/23/2008	
MS 355329-1	WCS49722	42.068		10.000000	35.530	65.4		А	06/23/2008	
CCV	WCS50001	19.691		20.00		98.5	90.0-110.		06/23/2008	
CCB		0							06/23/2008	
DU 355497-4		34.929			35.244	0.9	20		06/23/2008	
MS 355497-4	WCS49722	42.330		10.000000	35.244	70.9	90-110	А		
CCV	WCS50001	19.746		20.00		98.7	90.0-110.		06/23/2008	
CCB		0							06/23/2008	
MB 40063121		0							06/23/2008	
LCS 40063121	WCS50001	19.662		20.00		98.3	90.0-110.		06/23/2008	
DU 355529-1		7.3962			7.3392	0.8	20		06/23/2008	2251
MS 355529-1	WCS49722	16.909		10.000000	7.3392	95.7	90-110		06/23/2008	
CCV	WCS50001	19.746		20.00		98.7	90.0-110.		06/23/2008	2354
CCB		0.1964							06/24/2008	0009
CCV	WCS50001	19.458		20.00		97.3	90.0-110.		06/24/2008	0302
CCB		0							06/24/2008	0317
CCV	WCS50001	19.787		20.00		98.9	90.0-110.		06/24/2008	0609
CCB		0							06/24/2008	0625
BK		0							06/24/2008	0712
BK		0							06/24/2008	0743
BK		0							06/24/2008	0815
BK		19.597							06/24/2008	0846
CCV	WCS50001	19.512		20.00		97.6	90.0-110.		06/24/2008	0902
CCB		0.2003							06/24/2008	0917
ICV	WCS50001	19.486		20.00		97.4	90.0-110.		06/24/2008	1820
ICB		0.2099							06/24/2008	1836
MB 40071421		0							06/24/2008	1852
LCS 40071421	WCS50001	19.528		20.00		97.6	90.0-110.		06/24/2008	
DU 355329-11		9.7094			9.8612	1.6	20		06/24/2008	
MS 355329-11	WCS49722	19.719		10.000000	9.8612	98.6	90-110		06/24/2008	
CCV	WCS50001	19.583		20.00		97.9	90.0-110.		06/24/2008	
CCB		0.1922							06/24/2008	
DU 355908-1		7.4526			7.2819	2.3	20		06/24/2008	
MS 355908-1	WCS49722	16.820		10.000000	7.2819	95.4	90-110		06/25/2008	
CCV	WCS50001	19.526		20.00	7.2019	97.6	90.0-110.		06/25/2008	
CCB		0		20.00		27.0	20.0 110.		06/25/2008	
CCV	WCS50001	19.463		20.00		97.3	90.0-110.		06/25/2008	
CCB	TOOOCCON	0.2195		20.00					06/25/2008	
DU 356027-2		0.9914			1.4367	0.4453	0.5000		06/25/2008	
MS 356027-2	WCS49722	9.3208	0.9914	10.000000	1.4367	78.8		ħ	06/25/2008	
MS 356027-2 CCV	WCS49722 WCS50001	9.3208 19.516	0.9914	20.00	1.430/	97.6	90-110 90.0-110.	А	06/25/2008	
	MC2000T	19.516		20.00		91.0	90.0-TTO.			
CCB		U							06/25/2008	ΠΡΤΩ

Page 16 * %=% REC, R=RPD, A=ABS Diff., D=% Diff.

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

QC Lab ID Reagent QC Result QC Result True Value Orig. Value Calc. Result * Limits ICV WCS50001 8.9651 10.00 89.7 90.0-110. ICB 0 10.00 92.8 90.0-110. MB 40063121 0 10.00 92.8 90.0-110. DU 355329-1 0.1075 0.1088 0.0013 0.3000 MS 355329-1 0.1075 0.1088 68.6 90-110. CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 0 DU 355497-4 0 0 0 0 0 CCB 0 0 0 0 0 0 CCB 0 0 0 90.0-110. 0 0 0 CCB 0 0 0 0 0 0 0 CCB 0 0 0 0 0<	A A	
ICB 0 MB 40063121 0 LCS 40063121 WCS50001 9.2773 10.00 92.8 90.0-110. DU 355329-1 0.1075 0.1088 0.0013 0.3000 MS 355329-1 WCS49722 1.4814 2.000000 0.1088 68.6 90-110 CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 0 DU 355497-4 0 0 0 0 CCV WCS49722 1.4175 2.000000 0 70.9 90-110 CCW WCS49722 1.4175 2.000000 0 70.9 90-110 CCW WCS49722 0 10.00 96.4 90.0-110. CCB 0 0 0 96.4 90.0-110. MB 40063121 0 0 96.4 90.0-110.	A A	06/23/2008 1446 06/23/2008 1502 06/23/2008 1517 06/23/2008 1549 06/23/2008 1604
MB 40063121 0 LCS 40063121 WCS50001 9.2773 10.00 92.8 90.0-110. DU 355329-1 0.1075 0.1088 0.0013 0.3000 MS 355329-1 WCS49722 1.4814 2.000000 0.1088 68.6 90-110 CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 0 MS 355497-4 0 0 0 0 MS 355497-4 0 0 0 0 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 0 0.010. 0 MB 40063121 0 0 0 0 0	A A	06/23/2008 1502 06/23/2008 1517 06/23/2008 1549 06/23/2008 1604
LCS 40063121 WCS50001 9.2773 10.00 92.8 90.0-110. DU 355329-1 0.1075 0.1088 0.0013 0.3000 MS 355329-1 WCS49722 1.4814 2.000000 0.1088 68.6 90-110 CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 DU 355497-4 0 0 0 0 MS 355497-4 0 0 0 0 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 0 0 0.0-110. MB 40063121 0 0 0 10.00 96.4 90.0-110.	A A	06/23/2008 1517 06/23/2008 1549 06/23/2008 1604
DU 355329-1 0.1075 0.1088 0.0013 0.3000 MS 355329-1 WCS49722 1.4814 2.000000 0.1088 68.6 90-110 CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 DU 355497-4 0 0 0 0 MS 355497-4 0 0.0000 0 70.9 90-110 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 96.4 90.0-110. MB 40063121 0 0 0 10.00 96.4 90.0-110.	A A	06/23/2008 1549 06/23/2008 1604
MS 355329-1 WCS49722 1.4814 2.000000 0.1088 68.6 90-110 CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 0 DU 355497-4 0 0 0 0 KS 355497-4 WCS49722 1.4175 2.000000 0 70.9 90-110 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 0 96.4 90.0-110. MB 40063121 0 0 10.00 10.00 10.00 10.00	Ā	06/23/2008 1604
CCV WCS50001 9.4913 10.00 94.9 90.0-110. CCB 0 0 0 0 0 DU 355497-4 0 0 0 0 0 MS 355497-4 WCS49722 1.4175 2.000000 0 70.9 90-110 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 0 0 MB 40063121 0 0 0 0	Ā	
CCB 0 0 0 0 DU 355497-4 0 0 0 0 MS 355497-4 WCs49722 1.4175 2.000000 0 70.9 90-110 CCV WCs50001 9.6360 10.00 96.4 90.0-110 CCB 0 0 0 0 0	A	06/02/0000 1000
DU 355497-4 0 0 0 0 MS 355497-4 WCs49722 1.4175 2.000000 0 70.9 90-110 CCV WCs50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 0 MB 40063121 0 0 0		06/23/2008 1738
MS 355497-4 WCS49722 1.4175 2.000000 0 70.9 90-110 CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 0 0 10.00 10.00 10.00		06/23/2008 1754
CCV WCS50001 9.6360 10.00 96.4 90.0-110. CCB 0 <		06/23/2008 1943
CCB 0 MB 40063121 0		06/23/2008 1959
MB 40063121 0		06/23/2008 2030
		06/23/2008 2046
LCS 40063121 WCS50001 9.5985 10.00 96.0 90.0-110.		06/23/2008 2102
		06/23/2008 2117
DU 355529-1 0.2054 0.1737 0.0317 0.3000		06/23/2008 2251
MS 355529-1 WCS49722 1.6284 2.00000 0.1737 72.7 90-110	А	06/23/2008 2307
CCV WCS50001 9.8331 10.00 98.3 90.0-110.		06/23/2008 2354
CCB 0		06/24/2008 0009
CCV WCS50001 9.7506 10.00 97.5 90.0-110.		06/24/2008 0302
CCB 0		06/24/2008 0317
CCV WCS50001 9.8086 10.00 98.1 90.0-110.		06/24/2008 0609
CCB 0		06/24/2008 0625
вк О		06/24/2008 0712
вк О		06/24/2008 0743
вк О		06/24/2008 0815
вк О		06/24/2008 0846
CCV WCS50001 9.4848 10.00 94.8 90.0-110.		06/24/2008 0902
CCB 0		06/24/2008 0917
ICV WCS50001 8.9843 10.00 89.8 90.0-110.	G	06/24/2008 1820
ICB 0		06/24/2008 1836
MB 40071421 0		06/24/2008 1852
LCS 40071421 WCS50001 9.2992 10.00 93.0 90.0-110.	,	06/24/2008 1907
DU 355329-11 0 0 0 0		06/24/2008 1939
CCV WCS50001 9.8669 10.00 98.7 90.0-110.	,	06/24/2008 2128
CCB 0		06/24/2008 2144
DU 355908-1 0.2173 0.2088 0.0085 0.3000		06/24/2008 2349
MS 355908-1 WCS49722 1.6806 2.000000 0.2088 73.6 90-110	Α	06/25/2008 0005
CCV WCS50001 9.7836 10.00 97.8 90.0-110.	,	06/25/2008 0020
CCB 0		06/25/2008 0036
CCV WCS50001 9.6000 10.00 96.0 90.0-110.		06/25/2008 0344
CCB 0		06/25/2008 0400
DU 356027-2 0 0 0 0		06/25/2008 0415
MS 356027-2 WCS49722 1.7012 0 2.000000 0 85.1 90-110	Α	06/25/2008 0431
CCV WCS50001 9.6252 10.00 96.3 90.0-110.		06/25/2008 0502
CCB 0		06/25/2008 0518

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATTN: Todd Wells

Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter Nitrogen, Nitrate as N (NO3-N)			Units Batch(s)	Analyst: sur Test Code.: NO3						
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits F	Date	Time
ICV		WCS50001	10.254		10.0		102.5	90.0-110.	06/23/2008	
ICB			0						06/23/2008	
	40063121		0						06/23/2008	
	40063121	WCS50001	10.404		10.0		104.0	90.0-110.	06/23/2008	
	355329-1		0			0	0	0	06/23/2008	
MS	355329-1	WCS49722	1.9243		2.000000	0	96.2	90-110	06/23/2008	1604
CCV		WCS50001	10.374		10.0		103.7	90.0-110.	06/23/2008	1738
CCB			0						06/23/2008	1754
DU	355497-4		0			0	0	0	06/23/2008	1943
MS	355497-4	WCS49722	1.9491		2.000000	0	97.5	90-110	06/23/2008	1959
CCV		WCS50001	10.430		10.0		104.3	90.0-110.	06/23/2008	2030
CCB			0						06/23/2008	2046
MB	40063121		0						06/23/2008	
	40063121	WCS50001	10.427		10.0		104.3	90.0-110.	06/23/2008	
	355529-1	10000001	0		2010	0.0998	0.0998	0.2500	06/23/2008	
	355529-1	WCS49722	1.9565		2.000000	0.0998	92.8	90-110	06/23/2008	
CCV	555525 I	WCS50001	10.431		10.0	0.0000	104.3	90.0-110.	06/23/2008	
CCB		WCDDUUUT	0		10.0		101.3	JU.U 110.	06/24/2008	
CCV		WCS50001	10.288		10.0		102.9	90.0-110.	06/24/2008	
CCB		MCSSOOOT	0		10.0		102.9	90.0-110.	06/24/2008	
		WOOD 0001			10.0		104 1	00 0 110		
CCV		WCS50001	10.409 0		10.0		104.1	90.0-110.	06/24/2008	
CCB									06/24/2008	
BK			0						06/24/2008	
BK			0						06/24/2008	
BK			0						06/24/2008	
BK			0						06/24/2008	
CCV		WCS50001	10.427		10.0		104.3	90.0-110.	06/24/2008	
CCB			0						06/24/2008	
ICV		WCS50001	10.318		10.0		103.2	90.0-110.	06/24/2008	
ICB			0						06/24/2008	
MB	40071421		0						06/24/2008	
LCS	40071421	WCS50001	10.393		10.0		103.9	90.0-110.	06/24/2008	1907
DU	355329-11		0.0999			0	0.0999	0.2500	06/24/2008	1939
MS	355329-11	WCS49722	1.9777		2.000000	0	98.9	90-110	06/24/2008	1954
CCV		WCS50001	10.364		10.0		103.6	90.0-110.	06/24/2008	2128
CCB			0						06/24/2008	2144
DU	355908-1		0.1329			0.1456	0.0127	0.2500	06/24/2008	2349
MS	355908-1	WCS49722	1.9572		2.000000	0.1456	90.6	90-110	06/25/2008	0005
CCV		WCS50001	10.381		10.0		103.8	90.0-110.	06/25/2008	0020
CCB			0						06/25/2008	
CCV		WCS50001	10.336		10.0		103.4	90.0-110.	06/25/2008	
CCB			0		20.0		20012		06/25/2008	
	356027-2		0.1553			0.1785	0.0232	0.2500	06/25/2008	
MS	356027-2	WCS49722	1.9608	0.1553	2.000000	0.1785	89.1		. 06/25/2008	
CCV	550027-2	WCS50001	10.322	0.1000	10.0	0.1705	103.2	90.0-110 A	06/25/2008	
uν		MC22000T	0.322		T0.0		T02.2	90.0-TTO.		0502

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates PROJECT: STATE G LEASE NM 042079

Job Number.: 355329

ATIN: Todd Wells

2C Lab ID CCV CCB MB 40063121	Reagent WCS50001	QC Result			Units mg/L Batch(s): 400631 400714					
CB	WCS50001		QC Result	True Value	Orig. Value	Calc. Result *	Limits	F	Date	Time
-		9.6569		10.0		96.6	90.0-110.		06/23/2008	
Ɓ 40063121		0							06/23/2008	
		0							06/23/2008	1502
CS 40063121	WCS50001	9.7997		10.0		98.0	90.0-110.		06/23/2008	151
DU 355329-1		0			0	0	0		06/23/2008	154
NS 355329-1	WCS49722	2.0621		2.000000	0	103.1	90-110		06/23/2008	160
CV	WCS50001	9.7605		10.0		97.6	90.0-110.		06/23/2008	173
CB		0							06/23/2008	175
JU 355497-4		0			0	0	0		06/23/2008	194
1S 355497-4	WCS49722	2.0512		2.000000	0	102.6	90-110		06/23/2008	195
CV	WCS50001	9.7956		10.0		98.0	90.0-110.		06/23/2008	
CB		0							06/23/2008	
B 40063121		0							06/23/2008	
CS 40063121	WCS50001	9.7710		10.0		97.7	90.0-110.		06/23/2008	
U 355529-1	WCDJOUOT	0		10.0	0	0	0		06/23/2008	
4S 355529-1	WCS49722	1.7881		2.000000	0	89.4	90-110	λ	06/23/2008	
CV	WCS50001	9.7951		10.0	0	98.0	90.0-110.	А	06/23/2008	
	MCBJ0001	0		10.0		90.0	90.0-110.		06/24/2008	
ICB	W000 0001	-		10.0		96.5	00 0 110			
CV	WCS50001	9.6510		10.0		90.5	90.0-110.		06/24/2008	
CB	170050001	0.0757		10.0		07.6	00 0 110		06/24/2008	
CV	WCS50001	9.7552		10.0		97.6	90.0-110.		06/24/2008	
CB		0							06/24/2008	
3K.		0							06/24/2008	
3K.		0							06/24/2008	
3K.		0							06/24/2008	
3K.		0							06/24/2008	
2CV	WCS50001	9.6575		10.0		96.6	90.0-110.		06/24/2008	
CB		0							06/24/2008	091
CV	WCS50001	9.7204		10.0		97.2	90.0-110.		06/24/2008	1820
CB		0							06/24/2008	1836
Ɓ 40071421		0							06/24/2008	185
CS 40071421	WCS50001	9.6858		10.0		96.9	90.0-110.		06/24/2008	190'
JU 355329-11		0			0	0	0		06/24/2008	193
1S 355329-11	WCS49722	1.8418		2.000000	0	92.1	90-110		06/24/2008	195
CV	WCS50001	9.7469		10.0		97.5	90.0-110.		06/24/2008	212
CB		0							06/24/2008	
JU 355908-1		0			0	0	0		06/24/2008	
1S 355908-1	WCS49722	1.7763		2.000000	0	88.8	90-110	Δ	06/25/2008	
XCV	WCS50001	9.6992		10.0	Ū	97.0	90.0-110.		06/25/2008	
ICB		0		20.0		27.00	20.0 110.		06/25/2008	
ICV	WCS50001	9.6595		10.0		96.6	90.0-110.		06/25/2008	
ICB	TODOCCONT	9.0595		T0.0		20.0	JO.0-TTO.		06/25/2008	
DU 356027-2		0			0	0	0		06/25/2008	
	MCC/0700	-	0	2 00000	0	84.7	0	7		
4S 356027-2	WCS49722	1.6938	U	2.000000	U		90-110	А	06/25/2008	
ICV ICB	WCS50001	9.6543 0		10.0		96.5	90.0-110.		06/25/2008 06/25/2008	

Report Date.: 06/26/2008

CUSTOMER: Conestoga-Rovers and Associates

Job Number.: 355329

PROJECT: STATE G LEASE NM 042079

ATIN: Todd Wells

Test Method: SW-846 9056 Method Description.: Ion Chromatography Analysis Parameter: Sulfate (SO4)						: 400631 4	Analyst: sur Test Code.: SO4				
QC	Lab ID	Reagent	QC Result	QC Result	True Value	Orig. Value	Calc. Result *	Limits	F Date	Time	
ICV		WCS50001	19.243		20.00		96.2	90.0-110.	06/23/2008	3 1430	
ICB			0						06/23/2008	3 1446	
MB	40063121		0						06/23/2008	3 1502	
LCS	40063121	WCS50001	19.225		20.00		96.1	90.0-110.	06/23/2008	3 1517	
	355329-1		0.8904			0.9813	0.0909	0.5000	06/23/2008		
	355329-1	WCS49722	10.029		10.000000	0.9813	90.5	90-110	06/23/2008		
CCV		WCS50001	19.438		20.00		97.2	90.0-110.	06/23/2008	3 1738	
CCB			0						06/23/2008		
	355497-4		0.2225			0.1875	0.0350	0.5000	06/23/2008		
	355497-4	WCS49722	9.7019		10.000000	0.1875	95.1	90-110	06/23/2008		
CCV		WCS50001	19.549		20.00		97.7	90.0-110.	06/23/2008		
CCB			0						06/23/2008		
	40063121		0						06/23/2008		
	40063121	WCS50001	19.695		20.00		98.5	90.0-110.	06/23/2008		
	355529-1		1.7846			1.7966	0.0120	0.5000	06/23/2008		
	355529-1	WCS49722	11.234		10.000000	1.7966	94.4	90-110	06/23/2008		
CCV		WCS50001	19.367		20.00		96.8	90.0-110.	06/23/2008		
CCB		110050001	0		00.00		06 8	00 0 110	06/24/2008		
CCV		WCS50001	19.345		20.00		96.7	90.0-110.	06/24/2008		
CCB		170050001	0		00.00		07.0	00 0 110	06/24/2008		
CCV		WCS50001	19.559		20.00		97.8	90.0-110.	06/24/2008		
CCB			0						06/24/2008		
BK			0.1292						06/24/2008		
BK			0.2787 0						06/24/2008		
BK BK			0						06/24/2008		
CCV		WCS50001	19.529		20.00		97.6	90.0-110.	06/24/2008		
CCB		MCS30001	0		20.00		97.0	90.0-110.	06/24/2008		
ICV		WCS50001	18.954		20.00		94.8	90.0-110.	06/24/2008		
ICB		WCSJUUUI	0		20.00		71.0	JU.U 110.	06/24/2008		
	40071421		0						06/24/2008		
	40071421	WCS50001	19.667		20.00		98.3	90.0-110.	06/24/2008		
	355329-11	Mebbooot	0.3445		20.00	0.2612	0.0833	0.5000	06/24/2008		
-	355329-11	WCS49722	9.7946		10.000000	0.2612	95.3	90-110	06/24/2008		
CCV	555527 11	WCS50001	19.514		20.00	0.2012	97.6	90.0-110.	06/24/2008		
CCB			0.0340						06/24/2008		
	355908-1		29.938			30.087	0.5	20	06/24/2008		
-	355908-1	WCS49722	38.074		10.000000	30.087	79.9	90-110			
CCV		WCS50001	19.549		20.00		97.7	90.0-110.	06/25/2008		
CCB			0						06/25/2008		
CCV		WCS50001	19.384		20.00		96.9	90.0-110.	06/25/2008		
CCB			0						06/25/2008		
	356027-2	WCS49722	9.2607	0.7095	10.000000	0.0761	91.8	90-110	06/25/2008		
CCV		WCS50001	19.526		20.00		97.6	90.0-110.	06/25/2008	8 0502	
CCB			0						06/25/2008	0518	
QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/26/2008

REPORT COMMENTS

- 1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.
- 2) Reporting limits are adjusted for sample size used, dilutions and moisture content if applicable.
- 3) According to 40CFR Part 136.3, pH, Chlorine Residual, and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field,(e.g. pH Field) they were not analyzed immediately, but as soon as possible on laboratory receipt.
- 4) For all USACE projects, the QC limits are based on "mean +/- 2 sigma", which are the warning limits.

General Information:

- Cresylic Acid is the combination of o,m and p-Cresol. The combination is reported as the final result. - m-Cresol (3-Methylphenol) and p-Cresol (4-methylphenol) co-elute. The result of the two is reported as either m&p-cresol or as 4-methylphenol (p-cresol).

- m-Xylene and p-Xylene co-elute. The result of the two is reported as m,p-Xylene.
- N-Nitrosodiphenylamine decomposes in the gas chromatograph inlet forming dipheylamine and, consequently, may be detected as diphenylamine.
- Methylene Chloride and Acetone are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
 Trimethysilyl(Diazomethane) is used to esterify acid herbicides in Method SW-846 8151A.
- For Inorganic analyses, duplicate QC limits are determined as follows: If the sample result is less than or equal to 5 times the reporting limit, the RPD limit is equal to the reporting limit. If the sample result is greater than 5 times the reporting limit, the RPD limit is the method defined RPD.
- For TRRP reports, the header on the column RL is equivalent to a MQL/PQL.
- Results for LCS and MS/MSD recoveries listed in the report are reported as ug/L on-column values which are not corrected for variables such as sample volumes or weights extracted, final volume of extracts and dilutions. To correct QC on-column recoveries to reflect actual spiking volumes for soils, multiply the values reported for Diesel Range Organics and Semivolatiles by 33.3 and Gasoline Range Organics by 20. The 8260 and 1006 results will not require correction. The only corection required for water analysis is for method 1006 where the reported concentraiton must be multiplied by 0.1.
- Due to limitiation of the reporting software, results for the Method blank in the Semivolatile fraction are reported as "0". Which indicates there was no compound detected at the reporting limit for the compound reveiwed.
- The dilution factor listed on the report represents only the analytical dilutions necessary for the target compounds to be within the calibration range of the instrument. It does not include any preparation factors, dry weight or any other adjustment.

Explanation of Qualifiers:

- U This qualifier indicates that the analyte was analyzed but not detected.
- J (Organics only) This qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- B (Inorganics only) This Qualifier indicates that the analyte is an estimated value between the RL and the MDL.
- N (Organics only) This flag indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It is applied to all TIC results. For generic charachterization of a TIC, such as "chlorinated hydrocarbon", the "N" flag is not used.

Explanation of General QC Outliers:

- A Matrix interference present in sample.
- a MS/MSD analyses yielded comparable poor recoveries, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
- b Target analyte was found in the method blank.
- M QC sample analysis yielded recoveries outside QC acceptance criteria. This sample was reanalyzed.
- L LCS analysis yielded high recoveries, indicating a potential high bias. No target analytes were

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observed above the RL in the associated samples.

- G Marginal outlier within 1% of acceptance criteria.
- r RPD value is outside method acceptance criteria.
- C Poor RPD values observed due to the non-homogenous nature of the sample.
- 0 Sample required dilution due to matrix interference.
- D Sample reported from a dilution.
- d Spike and/or surrogate diluted.
- E The reported concentration exceeds the instrument calibration.
- F The analyte is outside QC limits and was not detected in any associated samples in the analytical batch.
- H Continuing Calibration Verification (CCV) standard is not associated with the samples reported.
- q See the subcontract final report for qualifier explanation.
- W The MS/MSD recoveries are outside QC acceptance criteria because the amount spiked is much less than the amount found in the sample.
- K High recovery will not affect the quality of reported results.
- Z See case narrative.

Explanation of Organic QC Outliers:

- e Method blank analysis yielded phthalate concentrations above the RL. Phthlates are recognized potential laboratory contaminants. Its presence in the sample up to five times the amount reported in the blank may be attributed to laboratory contamination.
- S Sample reanalyzed/reextracted due to poor surrogate recovery. Reanalysis confirmed original analysis indicating a possible matrix interference.
- T Sample analysis yielded poor surrogate recovery.
- R The RPD between the two GC columns is greater than 40% and no anomalies are present. The higher result is reported as per EPA Method 8000B.
- I The RPD between the two GC columns is greater than 40% and anomalies are present. The lower of the two results has been reported.
- X Gaseous compound. In-house QC limits are advisory.
- Y Ketone compounds have poor purge efficiency. In-house QC limits are advisory.
- f Surrogate not associated with reported analytes.

Explanation of Inorganic QC Outliers:

- Q Method blank analysis yielded target analytes above the RL. Associated sample results are greater than 10 times the concentrations observed in the method blank.
- V The RPD control limit for sample results less than 5 times the RL is +/- the RL value. Sample and duplicate results are within method acceptance criteria.
- e Serial dilution failed due to matrix interference.
- g Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike recovery being below 85 percent. The correlation coefficent for the MSA is greater than or equal to 0.995.
- s BOD/cBOD seed value is not within method acceptance criteria. Due to the nature of the test method, the sample cannot be reanalyzed.
- 1 BOD/cBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.
- N Spiked sample recovery is not within control limits.
- n Sample result quantitated by Method of Standard Additions (MSA) due to the analytical spike
- recovery being below 85 percent. The correlation coefficient for the MSA is less than 0.995.
- * Duplicate analysis is not within control limits.

Abbreviations:

- Batch Designation given to identify a specific extraction, digestion, preparation, or analysis set.
- CCV Continuing Calibration Verification
- CRA Low level standard check GFAA, Mercury
- CRI Low level standard check ICP
- Dil Fac Dilution Factor Secondary dilution analysis

QUALITY ASSURANCE METHODS

REFERENCES AND NOTES

Report Date: 06/26/2008

DLFac	- Detection Limit Factor
DU	- Duplicate
EB	- Extraction Blank (TCLP, SPLP, etc.)
ICAL	- Initial Calibration
ICB	- Initial Calibration Blank
ICV	- Initial Calibration Verification
ISA	- Interference Check Sample A - ICP
ISB	– Interference Check Sample B – ICP
LCD	- Laboratory Control Duplicate
LCS	- Laboratory Control Sample
MB	– Method Blank
MD	- Method Duplicate
MDL	- Method Detection Limit
MQL	- Method Quantitation Limit (TRRP)
MS	- Matrix Spike
MSD	- Matrix Spike Duplicate
ND	- Not Detected
PB	- Preparation Blank
PREPF	- Preparation Factor
RL	- Reporting Limit
RPD	- Relative Percent Difference
RRF	- Relative Response Factor
RT	- Retention Time
SQL	- Sample Quantitation Limit (TRRP)
TIC	- Tentatively Identified Compound

Method References:

- (1) EPA 600/4-79-020 Methods for the Analysis of Water and Wastes, March 1983.
- (2) EPA 600/R-94-111 Methods for the Determination of MEtals in Environmental Samples, Supplement I, May 1994.
- (3) EPA SW846 Test Methods for Evaluating Solid Waste, Third Edition, September 1986; Update I July 1992; Update II, September 1994, Update IIA August 1993; Update IIB, January 1995; Update III, December 1996, Update IVA January 1998, Update IVB November 2000.
- (4) Standard Methods for the Examination of Water and Wastewater, 16th Edition (1985), 17th Edition (1989), 18th Edition (1992), 19th Edition (1995), 20th Edition (1998).
- (5) HACH Water Analysis Handbook 3rd Edition (1997).
- (6) Federal Register, July 1, 1990 (40 CFR Part 136 Appendix A).
 (7) Compendium of Methods for the Determination of Toxic Organic Compounds in Ambient Air, 2nd Edition, January 1997.
- (9) Diagnosis and Improvement of Saline and Alkali Soils, Agriculture Handbook No. 60, United States Department of Agriculture, 1954.

LABORATORY CHRONICLE

Job Number: 355329

Date: 06/26/2008

CUSTOMER: Conestog	ga-Rovers and Associates	PROJECT: STATE G LEASE NM 04 ATTN: Todd Wells	
Lab ID: 355329-1 METHOD SW-846 9056	Client ID: SB-4 5' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1533	DILUTI 10
Lab ID: 355329-2 METHOD SW-846 9056	Client ID: SB-4 10' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1620	DILUTI 10
METHOD SW-846 9056	Ion Chromatography Analysis	$\begin{array}{ccc} RUN\# & \text{BATCH}\# & \text{PREP BT }\#(S) & \text{DATE/TIME ANALYZED} \\ 1 & 400631 & 06/23/2008 & 1636 \end{array}$	DILUTI 10
Lab ID: 355329-4 METHOD SW-846 9056	Client ID: SB-4 20' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1651	DILUTI 10
METHOD SW-846 9056	DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1707	DILUTI 10
SW-846 9056	Ion Chromatography Analysis	1 400631 06/23/2008 1723	DILUTI 10
Lab ID: 355329-7 METHOD SW-846 9056	Client ID: SB-4 35' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1809	DILUTI 10
Lab ID: 355329-8 METHOD SW-846 9056		Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1825	DILUTI 10
METHOD	Client ID: SB-4 40-42' DESCRIPTION Ion Chromatography Analysis	RINH BATCHH DRED BT $\#(S)$ DATE/TIME ANALYZED	DILUTI 10
METHOD	Client ID: SB-4 42-44' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400631 06/23/2008 1856	DILUTI 10
METHOD	Client ID: SB-4 44-46' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 1923	DILUTI 10
METHOD	Client ID: SB-4 46-48' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 2010	DILUTI 10
Lab ID: 355329-13 METHOD SW-846 9056	Client ID: SB-4 48-50' DESCRIPTION Ion Chromatography Analysis	Date Recvd: 06/10/2008 Sample Date: 06/02/2008 RUN# BATCH# PREP BT #(S) DATE/TIME ANALYZED 1 400714 06/24/2008 2026	DILUTI 10

Analytical Report 437672

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079

08-MAR-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco Tucson (EPA Lab code: AZ00989): Arizona (AZ0758)



08-MAR-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 437672 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 437672. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 437672 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 437672



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SB-4 0-5'	S	02-24-12 09:52	0 - 5 ft	437672-001
SB-4 5-10'	S	02-24-12 09:53	5 - 10 ft	437672-002
SB-4 10-15'	S	02-24-12 09:55	10 - 15 ft	437672-003
SB-4 15-20'	S	02-24-12 09:56	15 - 20 ft	437672-004
SB-4 20-25'	S	02-24-12 09:57	20 - 25 ft	437672-005
SB-4 25-30'	S	02-24-12 09:58	25 - 30 ft	437672-006
SB-4 30-35'	S	02-24-12 10:00	30 - 35 ft	437672-007
SB-4 35-40'	S	02-24-12 10:01	35 - 40 ft	437672-008
SB-4 40-45'	S	02-24-12 10:02	40 - 45 ft	437672-009
SB-4 45-50'	S	02-24-12 10:03	45 - 50 ft	437672-010
SB-4 50-55'	S	02-24-12 10:05	50 - 55 ft	437672-011
SB-4 55-60'	S	02-24-12 10:06	55 - 60 ft	437672-012
SB-4 60-65'	S	02-24-12 10:07	60 - 65 ft	437672-013
SB-4 65-70'	S	02-24-12 10:08	65 - 70 ft	437672-014
SB-4 70-75'	S	02-24-12 10:09	70 - 75 ft	437672-015
SB-4 75-80'	S	02-24-12 10:10	75 - 80 ft	437672-016
SB-5 0-5'	S	02-24-12 10:15	0 - 5 ft	437672-017
SB-5 5-10'	S	02-24-12 10:17	5 - 10 ft	437672-018
SB-5 10-15'	S	02-24-12 10:19	10 - 15 ft	437672-019
SB-5 15-20'	S	02-24-12 10:22	15 - 20 ft	437672-020
SB-5 20-25'	S	02-24-12 10:23	20 - 25 ft	437672-021
SB-5 25-30'	S	02-24-12 10:24	25 - 30 ft	437672-022
SB-5 30-35'	S	02-24-12 10:25	30 - 35 ft	437672-023
SB-5 35-40'	S	02-24-12 10:27	35 - 40 ft	437672-024
SB-5 40-45'	S	02-24-12 10:29	40 - 45 ft	437672-025
SB-5 45-50'	S	02-24-12 10:30	45 - 50 ft	437672-026
SB-5 50-55'	S	02-24-12 10:31	50 - 55 ft	437672-027
SB-5 55-60'	S	02-24-12 10:33	55 - 60 ft	437672-028
SB-5 60-65'	S	02-24-12 10:34	60 - 65 ft	437672-029
SB-5 65-70'	S	02-24-12 10:35	65 - 70 ft	437672-030
SB-5 70-75'	S	02-24-12 10:36	70 - 75 ft	437672-031
SB-5 75-80'	S	02-24-12 10:38	75 - 80 ft	437672-032
SB-6 0-5'	S	02-24-12 10:46	0 - 5 ft	437672-033
SB-6 5-10'	S	02-24-12 10:47	5 - 10 ft	437672-034
SB-6 10-15'	S	02-24-12 10:48	10 - 15 ft	437672-035
SB-6 15-20'	S	02-24-12 10:49	15 - 20 ft	437672-036
SB-6 20-25'	S	02-24-12 10:51	20 - 25 ft	437672-037
SB-6 25-30'	S	02-24-12 10:52	25 - 30 ft	437672-038
SB-6 30-35'	S	02-24-12 10:53	30 - 35 ft	437672-039
SB-6 35-40'	S	02-24-12 10:54	35 - 40 ft	437672-040
SB-6 40-45'	S	02-24-12 10:55	40 - 45 ft	437672-041
SB-6 45-50'	S	02-24-12 10:57	45 - 50 ft	437672-042
SB-6 50-55'	S	02-24-12 10:58	50 - 55 ft	437672-043



Sample Cross Reference 437672



Conestoga Rovers & Associates, Midland, TX

	8	,	,	
		State G		
SB-6 55-60'	S	02-24-12 10:59	55 - 60 ft	437672-044
SB-6 60-65'	S	02-24-12 11:00	60 - 65 ft	437672-045
SB-6 65-70'	S	02-24-12 11:01	65 - 70 ft	437672-046
SB-6 70-75'	S	02-24-12 11:02	70 - 75 ft	437672-047
SB-6 75-80'	S	02-24-12 11:04	75 - 80 ft	437672-048
SB-7 0-5'	S	02-24-12 09:17	0 - 5 ft	437672-049
SB-7 5-10'	S	02-24-12 09:18	5 - 10 ft	437672-050
SB-7 10-15'	S	02-24-12 09:22	10 - 15 ft	437672-051
SB-7 15-20'	S	02-24-12 09:26	15 - 20 ft	437672-052
SB-7 20-25'	S	02-24-12 09:27	20 - 25 ft	437672-053
SB-7 25-30'	S	02-24-12 09:29	25 - 30 ft	437672-054
SB-7 30-35'	S	02-24-12 09:30	30 - 35 ft	437672-055
SB-7 35-40'	S	02-24-12 09:31	35 - 40 ft	437672-056
SB-7 40-45'	S	02-24-12 09:32	40 - 45 ft	437672-057
SB-7 45-50'	S	02-24-12 09:33	45 - 50 ft	437672-058
SB-7 50-55'	S	02-24-12 09:33	50 - 55 ft	437672-059
SB-7 55-60'	S	02-24-12 09:34	55 - 60 ft	437672-060
SB-7 60-65'	S	02-24-12 09:19	60 - 65 ft	437672-061
SB-7 65-70'	S	02-24-12 09:20	65 - 70 ft	437672-062
SB-7 70-75'	S	02-24-12 09:21	70 - 75 ft	437672-063
SB-7 75-80'	S	02-24-12 09:22	75 - 80 ft	437672-064



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



Project ID:042079Work Order Number:437672

Report Date: 08-MAR-12 Date Received: 02/27/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am

Project Location: New Mexico								Report	Date:	08-MAR-12			
								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	001	437672-0	002	437672-0	03	437672-0	004	437672-0	05	437672-0	006
Analysis Requested	Field Id:	SB-4 0-	5'	SB-4 5-1	0'	SB-4 10-	15'	SB-4 15-	20'	SB-4 20-	25'	SB-4 25-3	30'
Analysis Kequesieu	Depth:	0-5 ft		5-10 ft		10-15 f	t	15-20 f	ť	20-25 f	ť	25-30 f	ìt
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	09:52	Feb-24-12 (09:53	Feb-24-12 ()9:55	Feb-24-12	09:56	Feb-24-12 ()9:57	Feb-24-12 (09:58
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		18.9	4.67	24.3	4.63	70.6	4.59	96.2	4.48	158	4.49	204	4.46
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12 1	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	14:55
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		10.1	1.00	9.33	1.00	8.56	1.00	6.27	1.00	6.50	1.00	5.74	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico								1					
								Project Mar	nager:	Brent Barron	Π		
	Lab Id:	437672-0	007	437672-0	08	437672-0	09	437672-0	010	437672-0	11	437672-0	012
Anglusia Doguostad	Field Id:	SB-4 30-3	35'	SB-4 35-4	40'	SB-4 40-4	45'	SB-4 45-	50'	SB-4 50-	55'	SB-4 55-	60'
Analysis Requested	Depth:	30-35 f	t	35-40 f	t	40-45 f	t	45-50 f	ì	50-55 f	t	55-60 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:00	Feb-24-12 1	0:01	Feb-24-12 1	10:02	Feb-24-12	10:03	Feb-24-12	10:05	Feb-24-12	10:06
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	10:01
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		314	8.98	333	8.88	357	8.86	326	8.82	370	8.99	279	4.46
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	14:55	Feb-27-12 1	4:55	Feb-27-12 1	14:55	Feb-27-12	14:55	Feb-27-12	14:55	Feb-27-12	15:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.43	1.00	5.45	1.00	5.18	1.00	4.77	1.00	6.60	1.00	5.91	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico								100001	2	00 1111111			
								Project Ma	nager:	Brent Barron	II		
	Lab Id:	437672-0	013	437672-0	014	437672-0	15	437672-0)16	437672-0	17	437672-0	018
An aluaia Donas anto d	Field Id:	SB-4 60-	-65'	SB-4 65-	70'	SB-4 70-7	75'	SB-4 75-	80'	SB-5 0-	5'	SB-5 5-1	10'
Analysis Requested	Depth:	60-65 1	ft	65-70 f	ì	70-75 f	t	75-80 1	Ìt	0-5 ft		5-10 ft	
	Matrix:	SOIL	,	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:07	Feb-24-12	10:08	Feb-24-12 1	0:09	Feb-24-12	10:10	Feb-24-12	10:15	Feb-24-12	10:17
Anions by E300	Extracted:												
	Analyzed:	Mar-05-12	10:01	Mar-05-12	10:01	Mar-05-12	0:01	Mar-05-12	10:01	Mar-06-12	09:36	Mar-06-12	09:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		291	4.46	371	8.87	414	8.83	395	8.74	365	9.00	189	9.16
Percent Moisture	Extracted:												
	Analyzed:	Feb-27-12	15:05	Feb-27-12	15:05	Feb-27-12 1	5:05	Feb-27-12	15:05	Feb-27-12	15:11	Feb-27-12	15:11
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		5.77	1.00	5.32	1.00	4.86	1.00	3.91	1.00	6.71	1.00	8.33	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

							Keport	Date.	00-WIAK-12			
							Project Mai	nager:	Brent Barron	Ι		
Lab Id:	437672-0)19	437672-0	20	437672-0	21	437672-0	022	437672-0	23	437672-0	024
Field Id:	SB-5 10-	15'	SB-5 15-2	20'	SB-5 20-2	25'	SB-5 25-	30'	SB-5 30-2	35'	SB-5 35-	40'
Depth:	10-15 f	ît	15-20 f	t	20-25 f	t	25-30 f	ť	30-35 f	t	35-40 f	ť
Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
Sampled:	Feb-24-12	10:19	Feb-24-12 1	10:22	Feb-24-12 1	10:23	Feb-24-12	10:24	Feb-24-12	0:25	Feb-24-12	10:27
Extracted:												
Analyzed:	Mar-06-12	09:36	Mar-06-12 (09:36	Mar-06-12 (09:36	Mar-06-12	09:36	Mar-06-12	09:36	Mar-06-12	09:36
Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
	437	9.25	868	18.1	990	18.0	627	8.89	414	8.91	411	8.91
Extracted:												
Analyzed:	Feb-27-12	15:11	Feb-27-12 1	15:11	Feb-27-12 1	15:11	Feb-27-12	15:11	Feb-27-12	5:11	Feb-27-12	15:11
Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
	9.20	1.00	7.07	1.00	6.42	1.00	5.52	1.00	5.77	1.00	5.68	1.00
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed:	Field Id:SB-5 10-Depth:10-15 1Matrix:SOILSampled:Feb-24-12Extracted:Mar-06-12Units/RL:mg/kg437Extracted:Analyzed:Feb-27-12Units/RL:%	Field Id: SB-5 10-15' Depth: 10-15 ft Matrix: SOIL Sampled: Feb-24-12 10:19 Extracted: Mar-06-12 09:36 Units/RL: mg/kg RL 437 9.25 Extracted: Feb-27-12 15:11 Units/RL: % RL	Field Id: SB-5 10-15' SB-5 15-7 Depth: 10-15 ft 15-20 ft Matrix: SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10 Extracted: Analyzed: Mar-06-12 09:36 Mar-06-12 0 Units/RL: mg/kg RL mg/kg Extracted: 437 9.25 868 Extracted: Units/RL: Feb-27-12 15:11 Feb-27-12 15	Field Id: SB-5 10-15' SB-5 15-20' Depth: 10-15 ft 15-20 ft Matrix: SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg Extracted: 437 9.25 868 18.1 Extracted: Heb-27-12 15:11 Feb-27-12 15:11 Feb-27-12 15:11 Units/RL: % RL % RL	Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-20 Depth: 10-15 ft 15-20 ft 20-25 ft Matrix: SOIL SOIL SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Feb-24-12 10 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09 Units/RL: mg/kg RL mg/kg RL mg/kg Extracted: 437 9.25 868 18.1 990 Extracted: Extracted: Extracted: Extracted: Extracted: Extracted: Manalyzed: Feb-27-12 15:11 Feb-27-12 15:11 Feb-27-12 15:11 Feb-27-12 15:11 Units/RL: % RL % RL %	Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' Depth: 10-15 ft 15-20 ft 20-25 ft Matrix: SOIL SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Feb-24-12 10:23 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg RL 437 9.25 868 18.1 990 18.0 Extracted: Feb-27-12 15:11 Maryzed: Feb-27-12 15:11 Feb-27-12 15:11 Feb-27-12 15:11 Units/RL: % RL % RL	Troject Mar Lab Id: 437672-019 437672-020 437672-021 437672-021 Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' SB-5 25-30 ft Depth: 10-15 ft 15-20 ft 20-25 ft 25-30 ft Matrix: SOIL SOIL SOIL SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Feb-24-12 10:23 Feb-24-12 10:23 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg Low Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg Mar	Project Manager: Lab Id: 437672-019 437672-020 437672-021 437672-022 Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' SB-5 25-30' Depth: 10-15 ft 15-20 ft 20-25 ft 25-30 ft Matrix: SOIL SOIL SOIL SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Feb-24-12 10:23 Feb-24-12 10:24 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Mar-06-12 09:36 Units/RL: mg/kg RL mg/kg RL mg/kg RL mg/kg RL Feb-27-12 15:11 Feb-27-12 15:11 Feb-27-12 15:11 Units/RL: % RL % RL	Lab Id: 437672-019 437672-020 437672-021 437672-022 437672-02 Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' SB-5 25-30' SB-5 30-3 Depth: 10-15 ft 15-20 ft 20-25 ft 25-30 ft 30-35 ft Matrix: SOIL SOIL SOIL SOIL SOIL SOIL SOIL Sampled: Feb-24-12 10:19 Feb-24-12 10:22 Feb-24-12 10:23 Feb-24-12 10:24 Feb-24-12 10 Extracted: Mar-06-12 09:36 Mar-06-12 09:36 <th>Project Manager: Brent Barron II Lab Id: 437672-019 437672-020 437672-021 437672-022 437672-023 437672-023 Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' SB-5 25-30' SB-5 30-35' Depth: 10-15 ft 15-20 ft 20-25 ft 25-30 ft 30-35 ft Matrix: SOIL SOIL</th> <th>Note: Note: Note</th>	Project Manager: Brent Barron II Lab Id: 437672-019 437672-020 437672-021 437672-022 437672-023 437672-023 Field Id: SB-5 10-15' SB-5 15-20' SB-5 20-25' SB-5 25-30' SB-5 30-35' Depth: 10-15 ft 15-20 ft 20-25 ft 25-30 ft 30-35 ft Matrix: SOIL SOIL	Note: Note

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico													
								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	25	437672-0	26	437672-0	027	437672-0	28	437672-0	29	437672-0	030
Anghaia Daguastad	Field Id:	SB-5 40-4	45'	SB-5 45-3	50'	SB-5 50-3	55'	SB-5 55-	60'	SB-5 60-	65'	SB-5 65-	70'
Analysis Requested	Depth:	40-45 f	t	45-50 f	t	50-55 f	ì	55-60 f	ť	60-65 f	t	65-70 f	ì
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:29	Feb-24-12 1	10:30	Feb-24-12 1	10:31	Feb-24-12	10:33	Feb-24-12	0:34	Feb-24-12	10:35
Anions by E300	Extracted:												
	Analyzed:	Mar-06-12	09:36	Mar-06-12 (09:36	Mar-06-12 (09:36	Mar-06-12	09:36	Mar-06-12 (09:36	Mar-06-12	09:36
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		373	4.42	380	4.43	641	9.01	500	8.88	463	8.90	398	8.84
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12 1	11:05	Feb-28-12 1	11:05	Feb-28-12	11:05	Feb-28-12	1:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.97	1.00	5.21	1.00	6.74	1.00	5.45	1.00	5.67	1.00	5.01	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Project Location: New Mexico								Report	Date.	00-1011 112			
								Project Mai	nager:	Brent Barron	Π		
	Lab Id:	437672-0	031	437672-0	32	437672-0	33	437672-0	34	437672-0)35	437672-0	36
Anglusia Baguastad	Field Id:	SB-5 70-	75'	SB-5 75-8	80'	SB-6 0-5	5'	SB-6 5-1	0'	SB-6 10-	15'	SB-6 15-2	20'
Analysis Requested	Depth:	70-75 1	ft	75-80 f	t	0-5 ft		5-10 ft		10-15 f	ì	15-20 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:36	Feb-24-12 1	10:38	Feb-24-12 1	10:46	Feb-24-12	10:47	Feb-24-12	10:48	Feb-24-12	10:49
Anions by E300	Extracted:												
	Analyzed:	Mar-06-12	09:36	Mar-06-12 (09:36	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		428	8.82	365	8.73	1110	17.6	1530	18.1	1170	18.1	965	8.93
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12 1	11:05	Feb-28-12 1	11:05	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.77	1.00	3.77	1.00	4.77	1.00	7.20	1.00	7.00	1.00	5.97	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico													
								Project Ma	nager:	Brent Barron	II		
	Lab Id:	437672-0	37	437672-0	38	437672-0	39	437672-0	940	437672-0	041	437672-0	42
Anghaig Dequested	Field Id:	SB-6 20-	25'	SB-6 25-3	30'	SB-6 30-3	35'	SB-6 35-	40'	SB-6 40-	45'	SB-6 45-	50'
Analysis Requested	Depth:	20-25 f	t l	25-30 f	t	30-35 f	t	35-40 f	ť	40-45 f	ì	45-50 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:51	Feb-24-12 1	10:52	Feb-24-12 1	0:53	Feb-24-12	10:54	Feb-24-12	10:55	Feb-24-12	10:57
Anions by E300	Extracted:												
	Analyzed:	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-07-12	15:50	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1040	18.0	857	8.81	886	8.82	934	8.90	716	8.83	297	4.37
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12 1	11:05	Feb-28-12 1	1:05	Feb-28-12	11:05	Feb-28-12	11:05	Feb-28-12	11:05
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.46	1.00	4.64	1.00	4.76	1.00	5.65	1.00	4.83	1.00	3.91	1.00

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Brent Barron II Odessa Laboratory Manager



Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

roject Location: New Mexico													
								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	043	437672-0	44	437672-0	45	437672-0	46	437672-0	47	437672-0	48
Anghaia Daguastad	Field Id:	SB-6 50-	55'	SB-6 55-6	50'	SB-6 60-6	65'	SB-6 65-	70'	SB-6 70-	75'	SB-6 75-	80'
Analysis Requested	Depth:	50-55 f	ì l	55-60 f	t	60-65 f	t	65-70 f	t	70-75 f	t	75-80 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12	10:58	Feb-24-12 1	0:59	Feb-24-12 1	11:00	Feb-24-12	1:01	Feb-24-12	1:02	Feb-24-12	11:04
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12 (00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		209	4.47	10.2	4.44	97.0	4.45	31.0	4.41	18.2	4.42	18.1	4.37
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	11:05	Feb-28-12 1	1:05	Feb-28-12 1	11:30	Feb-28-12	1:30	Feb-28-12	1:30	Feb-28-12	11:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		6.07	1.00	5.49	1.00	5.63	1.00	4.77	1.00	4.99	1.00	3.86	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am

Project Location: New Mexico								Report	Date:	08-MAR-12			
								Project Mai	nager:	Brent Barron	Π		
	Lab Id:	437672-0	949	437672-0	50	437672-0	51	437672-0	52	437672-0	53	437672-0	54
Analysis Requested	Field Id:	SB-7 0-	5'	SB-7 5-1	0'	SB-7 10-1	15'	SB-7 15-	20'	SB-7 20-2	25'	SB-7 25-3	30'
Analysis Kequestea	Depth:	0-5 ft		5-10 ft		10-15 ft	t	15-20 f	ť	20-25 f	t	25-30 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12 (09:17	Feb-24-12 (09:18	Feb-24-12 0	9:22	Feb-24-12 (09:26	Feb-24-12 ()9:27	Feb-24-12 ()9:29
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12 (00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12 (00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		432	8.80	832	8.84	1650	18.2	1500	17.9	1460	17.9	1080	17.7
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	12:30	Feb-28-12 1	12:30	Feb-28-12 1	2:30	Feb-28-12	12:30	Feb-28-12	12:30	Feb-28-12 1	12:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.53	1.00	4.95	1.00	7.60	1.00	5.99	1.00	6.08	1.00	4.93	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw Project Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Project Location: New Mexico								Report	Date.	00-1017 114-12			
								Project Ma	nager:	Brent Barron	Π		
	Lab Id:	437672-0	55	437672-0	56	437672-0	57	437672-0)58	437672-0	59	437672-0	60
Anglucia Deguested	Field Id:	SB-7 30-	35'	SB-7 35-4	40'	SB-7 40-4	45'	SB-7 45-	50'	SB-7 50-	55'	SB-7 55-	60'
Analysis Requested	Depth:	30-35 f	t l	35-40 f	t	40-45 f	t	45-50 f	ť	50-55 f	t	55-60 f	ť
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Feb-24-12 (09:30	Feb-24-12 (9:31	Feb-24-12 ()9:32	Feb-24-12	09:33	Feb-24-12 (09:33	Feb-24-12 (09:34
Anions by E300	Extracted:												
	Analyzed:	Mar-08-12	00:15	Mar-08-12 (00:15	Mar-08-12 (00:15	Mar-08-12	00:15	Mar-08-12	00:15	Mar-08-12	00:15
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		980	8.83	972	8.86	1000	17.7	975	8.82	1310	17.9	1190	17.9
Percent Moisture	Extracted:												
	Analyzed:	Feb-28-12	12:30	Feb-28-12 1	2:30	Feb-28-12 1	12:30	Feb-28-12	12:30	Feb-28-12	12:30	Feb-28-12	12:42
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		4.83	1.00	5.17	1.00	5.12	1.00	4.71	1.00	6.08	1.00	6.30	1.00

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Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Project Id: 042079 Contact: Desiree Crenshaw oject Location: New Mexico

Date Received in Lab: Mon Feb-27-12 10:59 am Report Date: 08-MAR-12

Project Location: New Mexico								Report	Date:	08-MAR-12	
								Project Ma	nager:	Brent Barron II	
	Lab Id:	437672-00	61	437672-0	62	437672-0	63	437672-0	64		
Analysis Proposted	Field Id:	SB-7 60-6	55'	SB-7 65-7	70'	SB-7 70-7	75'	SB-7 75-	80'		
Analysis Requested	Depth:	60-65 ft		65-70 f	t	70-75 f	t	75-80 f	ť		
	Matrix:	SOIL		SOIL		SOIL		SOIL			
	Sampled:	Feb-24-12 0	9:19	Feb-24-12 (9:20	Feb-24-12 (09:21	Feb-24-12 ()9:22		
Anions by E300	Extracted:										
	Analyzed:	Mar-05-12 1	0:01	Mar-05-12 1	0:01	Mar-05-12	10:01	Mar-05-12	10:01		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		1040 D	17.9	348	4.43	164	4.39	154	4.35		
Percent Moisture	Extracted:										
	Analyzed:	Feb-28-12 1	2:42	Feb-28-12 1	2:42	Feb-28-12 1	12:42	Feb-28-12	12:42		
	Units/RL:	%	RL	%	RL	%	RL	%	RL		
Percent Moisture		6.09	1.00	5.16	1.00	4.27	1.00	3.54	1.00		

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Brent Barron II Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
----------------------------	-----------------------------------	------------------------

- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(813) 620-2000	(813) 620-2033
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	





Project Name: State G

Work Order #: 437672		Project ID:					
Lab Batch #: 882942	Sa	mple: 882942-	1-BKS	Matrix:			
Date Analyzed: 03/06/2012	Date Prej	pared: 03/06/20	012	Analyst:	BRB		
Reporting Units: mg/kg	Ba	tch #: 1	BLANK /I	COVERY S	STUDY		
Anions by E300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes				[C]	[D]		
Chloride		< 0.840	20.0	18.6	93	75-125	
Lab Batch #: 882943	Sa	mple: 882943-	1-BKS	Matrix:	Solid		
Date Analyzed: 03/05/2012	Date Prej	pared: 03/05/20)12	Analyst:	BRB		
Reporting Units: mg/kg	Ba	tch #: 1	BLANK /I	BLANK SPI	KE REC	COVERY S	STUDY
Anions by E300		Blank Result [A]	Spike Added [B]	Blank Spike Result	Blank Spike %R	Control Limits %R	Flags
Analytes		[A]	լոյ	[C]	[D]	70K	
Chloride		< 0.840	20.0	18.7	94	75-125	

Blank Spike Recovery [D] = 100*[C]/[B] All results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit





Project Name: State G

Work Order #: 437672		Project ID: 042079										
Analyst: BRB		Da	ate Prepar	red: 03/07/201	2			Date A	nalyzed: (3/07/2012		
Lab Batch ID: 883085	Sample: 883085-1-B	KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg			BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
Anions by I	E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<0.840	20.0	19.8	99	20.0	19.8	99	0	75-125	20	
Analyst: BRB		Da	ate Prepar	red: 03/08/201	2			Date A	nalyzed: (3/08/2012		
Lab Batch ID: 883089	Sample: 883089-1-B	KS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / H	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	Ŷ	
Anions by 1	E300	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<0.840	20.0	19.7	99	20.0	19.6	98	1	75-125	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G



Batch H S 1	-	IX / MA Spike Added [B]	TRIX SPIKE Spiked Sample Result [C] 134	Matrix: S RECO %R [D] 104	oil	DY Flag
Batch H S 1	MATR Parent Sample Result [A]	Spike Added [B]	TRIX SPIKE Spiked Sample Result [C]	RECO %R [D]	oil VERY STU Control Limits %R	
Batcl I S	MATR Parent Sample Result	Spike Added	TRIX SPIKE Spiked Sample Result	RECO %R	oil VERY STU Control Limits	
-		IX / MA			oil	DY
-					oil	
1				•		
Date Prepar	ed: 03/05	5/2012	А	nalyst: B	RB	
	12.5	121	136	102	75-125	
	[A]	[B]				
	Result	Spike Added	Result [C]	%R [D]	Limits %R	Flag
			Spiked Sample		Control	
	-	IX / MA				DY
-				-		
Date Prepar	•ed: 03/06	5/2012	А	nalvst: B	RB	
	414	212	649	111	75-125	
	[A]	[B]		[~]		
s	ample	Spike Added	Result	%R	Limits	Flag
		IX / MA	1			DY
Batcl						
Date Prepar	ed: 03/06	5/2012	Α	nalyst: B	RB	
	Batcl Batcl Date Prepar Batcl I S I I I S I I I I S I I I I S I I I I S I I I I S I I I I I S I I I I I S I I I I I S I	Batch #: 1 MATR Parent Sample Result [A] 414 Date Prepared: 03/00 Batch #: 1 MATR Parent Sample Result [A] 12.5	MATRIX / MA Parent Sample Result [A] Spike Added [B] 414 212 Date Prepared: 03/06/2012 Batch #: 1 MATRIX / MA Parent Sample Result [A] Spike Added [B]	Date Prepared: 03/06/2012 A Batch #: 1 M MATRIX / MATRIX SPIKE MATRIX SPIKE Parent Spike Spiked Sample Sample Spike Added [A] [B] [C] 414 212 649 Date Prepared: 03/06/2012 A Batch #: 1 M MATRIX / MATRIX SPIKE M Batch #: 1 M MATRIX MATRIX M Batch #: 1 M MATRIX MATRIX SPIKE M 1 12.5 121 136	Date Prepared: 03/06/2012 Analyst: B Batch #: 1 Matrix: S MATRIX / MATRIX SPIKE RECO Matrix: S Parent Spike Spiked Sample Sample Spike Matrix: S Image: Color of the system	Batch #: 1 Matrix: Soil MATRIX / MATRIX SPIKE RECOVERY STU Parent Spike Spiked Sample Spiked Sample Spike Control Sample Spike Added [C] %R Control Limits %R Matrix: Spike <

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 437672							
Lab Batch #: 883085			Pr	oject ID:	042079		
Date Analyzed: 03/07/2012	Date Prepared: 03/0	07/2012	A	Analyst: B	RB		
QC- Sample ID: 438034-001 S	Batch #:	l]	Matrix: S	oil		
Reporting Units: mg/kg	MAT	MATRIX / MATRIX SPIKE RECOVERY ST					
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	9.88	102	111	99	75-125		
Lab Batch #: 883089							
Date Analyzed: 03/08/2012	Date Prepared: 03/0	08/2012	A	Analyst: B	RB		
QC- Sample ID: 437672-042 S	Batch #:	l	1	Matrix: S	oil		
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	[A]	[B]					
Chloride	297	104	426	124	75-125		
Lab Batch #: 883089							
Date Analyzed: 03/08/2012	Date Prepared: 03/0	08/2012	A	Analyst: B	RB		
QC- Sample ID: 437672-052 S	Batch #:	l]	Matrix: S	oil		
Reporting Units: mg/kg	MAT	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY	
Inorganic Anions by EPA 300	Parent Sample	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag	
Analytes	Result [A]	[B]		נשן			

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes



Work Order #: 437672

Sample Duplicate Recovery



Project Name: State G

Lab Batch #: 882942 Date Analyzed: 03/06/2012 09:36 QC- Sample ID: 438142-001 D Reporting Units: mg/kg	te Prepare Batch Г	-	Ana Ana	lyst:BRB rix: Soil	D: 042079	OVERV
Anions by E300 Analyte]	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		12.5	12.2	2	20	
QC- Sample ID: 437672-001 D	te Prepare Batch Г	-		lyst:BRB rix: Soil	ATE DEC	OVEDV
Reporting Units: mg/kg Anions by E300 Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		18.9	23.2	20	20	
QC- Sample ID: 438034-001 D	te Prepare Batch		Mat	lyst:BRB rix: Soil		
Reporting Units: mg/kg		SAMPLE /	SAMPLE		1	OVERY
Anions by E300 Analyte	1	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		9.88	9.22	7	20	
Lab Batch #: 883085 Date Analyzed: 03/07/2012 15:50 Date QC- Sample ID: 438034-011 D	te Prepare Batch	ed: 03/07/2012 #: 1		lyst:BRB rix: Soil		<u>.</u>
Reporting Units: mg/kg	ſ	SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	I	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		310	293	6	20	

Spike Relative Difference RPD 200 * $|\,(B\text{-}A)/(B\text{+}A)\,|$ All Results are based on MDL and validated for QC purposes.



Work Order #: 437672

Sample Duplicate Recovery



Project Name: State G

Lab Batch #: 883089 Date Analyzed: 03/08/2012 00:15 Date P QC- Sample ID: 437672-042 D	Prepare Batch	d:03/08/2012 #: 1	Ana Ana	Project I lyst: BRB rix: Soil	D: 042079	
Reporting Units: mg/kg	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300 Analyte	I	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		297	297	0	20	
Lab Batch #: 882343 Date Analyzed: 02/27/2012 13:00 QC- Sample ID: 437671-001 D Reporting Units: %	Prepare Batch			lyst:BRB rix: Soil	ATE REC	OVERY
Percent Moisture Analyte	F	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		8.99	8.74	3	20	
Lab Batch #: 882344 Date Analyzed: 02/27/2012 15:11 Date P QC- Sample ID: 437672-017 D Reporting Units: %	Prepare Batch	-		lyst:BRB rix: Soil DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	I	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		6.71	6.95	4	20	
Lab Batch #: 882450 Date Analyzed: 02/28/2012 11:05 QC- Sample ID: 437672-025 D	Prepare Batch	d:02/28/2012 #: 1		lyst:BRB rix: Soil		
Reporting Units: %	Г	SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte	F	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		4.97	5.23	5	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) |

All Results are based on MDL and validated for QC purposes.



Sample Duplicate Recovery



Project Name: State G

Work Order #: 437672

Lab Batch #: 882452 Date Analyzed: 02/28/2012 11:30 QC- Sample ID: 437672-045 D	Date Prepar Batch	red: 02/28/2012 h #: 1	2 Anal	Project I yst:BRB rix: Soil	D: 042079	
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		5.63	5.43	4	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Page 30 of 32

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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	CRA	
Date/Time:	2.27.12 10:59	
Lab ID # :	437672	
Initials:	AE.	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(NA)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	NO		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No	-	
11. Samples in proper container / bottle?	Yes	No		
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	Yee	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	(NA)	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	0	Cooler 5 No.	
lbs 3.0°c lbs °c lbs	°C ibs	°(C Ibs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:	,		
Corrective Action Take	n:		
	□ Cooling process has begun shortly after sa	mpling event and out of temperature	

 Cooling process has begun shortly after sampling event and out of temper condition acceptable by NELAC 5.5.8.3.1.a.1.
 Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis
Analytical Report 445445

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079-2012-02

16-JUL-12

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



16-JUL-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 445445 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445445. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445445 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Nicholas Straccione Project Manager

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Sample Cross Reference 445445



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Site A NW Wall	S	07-10-12 17:00	0 - 2.5 ft	445445-001
Site A NE Wall	S	07-10-12 17:00	0 - 2.5 ft	445445-002
Site A SW Wall	S	07-11-12 10:00	0 - 2.5 ft	445445-003
Site A SE Wall	S	07-11-12 10:05	0 - 2.5 ft	445445-004
Site A N Floor	S	07-11-12 10:10	0 - 2.5 ft	445445-005
Site A S Floor	S	07-11-12 10:15	0 - 2.5 ft	445445-006
Site B NW Wall	S	07-11-12 10:20	0 - 2.5 ft	445445-007
Site B NE Wall	S	07-11-12 10:25	0 - 2.5 ft	445445-008
Site B SW Wall	S	07-11-12 10:30	0 - 2.5 ft	445445-009
Site B SE Wall	S	07-11-12 10:35	0 - 2.5 ft	445445-010
Site B Floor	S	07-11-12 10:40	0 - 2.5 ft	445445-011



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



 Project ID:
 042079-2012-02

 Work Order Number:
 445445

Report Date: 16-JUL-12 Date Received: 07/11/2012

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-892030 TPH By SW8015 Mod SW8015MOD_NM

Batch 892030, 1-Chlorooctane, o-Terphenyl recovered above QC limits Data confirmed by reanalysis. Samples affected are: 624446-1-BKS.

SW8015MOD_NM

Batch 892030, C12-C28 DRO recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 445445-010, -004, -005, -001, -002, -007, -008, -006, -003, -009, -011. The Laboratory Control Sample for C12-C28 DRO is within laboratory Control Limits



Certificate of Analysis Summary 445445

Conestoga Rovers & Associates, Midland, TX

Project Name: State G

Project Id: 042079-2012-02 Contact: Desiree Crenshaw Project Location: New Mexico



Date Received in Lab: Wed Jul-11-12 03:05 pm

Report Date: 16-JUL-12

oject Location: New Mexico								-					
								Project Mar	nager: 1	Nicholas Strac	ccione		
	Lab Id:	445445-0	001	445445-0	02	445445-0	03	445445-0	04	445445-0	05	445445-0	06
Analysis Requested	Field Id:	Site A NW	Wall	Site A NE	Wall	Site A SW	Wall	Site A SE V	Wall	Site A N F	loor	Site A S Fl	loor
Anulysis Kequesieu	Depth:	0-2.5 f	t	0-2.5 ft	t	0-2.5 ft	t	0-2.5 ft	:	0-2.5 ft	t	0-2.5 ft	t
	Matrix:	SOLIE	>	SOLID		SOLID		SOLID		SOLID)	SOLID)
	Sampled:	Jul-10-12 1	7:00	Jul-10-12 17:00		Jul-11-12 10:00		Jul-11-12 10:05		Jul-11-12 1	0:10	Jul-11-12 1	0:15
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-13-12 02:53		Jul-13-12 03:09		Jul-13-12 03:25		Jul-13-12 03:41		Jul-13-12 0	3:57	Jul-13-12 0	4:46
SUB: E871002	Analyzed:	Jul-13-12 (02:53	Jul-13-12 0	3:09	Jul-13-12 0	3:25	Jul-13-12 0	3:41	Jul-13-12 0	3:57	Jul-13-12 0	4:46
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1210	11.3	377	10.9	685	11.1	1190	12.4	1470	13.0	794	11.6
Percent Moisture	Extracted:												
	Analyzed:	Jul-11-12	16:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		11.9	1.00	8.15	1.00	10.3	1.00	19.2	1.00	23.3	1.00	14.0	1.00
TPH By SW8015 Mod	Extracted:	Jul-11-12	16:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00
	Analyzed:	Jul-12-12 (01:29	Jul-12-12 0	1:58	Jul-12-12 0	2:27	Jul-12-12 0	2:55	Jul-12-12 0	3:25	Jul-12-12 0	3:57
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 GRO		ND	17.0	ND	16.3	ND	83.3	ND	18.5	ND	97.5	ND	17.4
C12-C28 DRO		941	17.0	925	16.3	1410	83.3	272	18.5	6980	97.5	598	17.4

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione Project Manager



Certificate of Analysis Summary 445445

Conestoga Rovers & Associates, Midland, TX

Project Name: State G





Date Received in Lab: Wed Jul-11-12 03:05 pm

Report Date: 16-JUL-12

roject Location: New Mexico								-tepoire	2	1000212		
								Project Mar	nager:	Nicholas Strac	ccione	
	Lab Id:	445445-0	007	445445-0	08	445445-0	09	445445-0	10	445445-0	011	
Analysis Paguastad	Field Id:	Site B NW	Wall	Site B NE Wall		Site B SW	Wall	Site B SE	Wall	Site B Flo	oor	
Analysis Requested	Depth:	0-2.5 f	ft	0-2.5 ft		0-2.5 ft		0-2.5 ft		0-2.5 f	t	
	Matrix:	SOLII	o l	SOLID		SOLID		SOLID		SOLIE	b	
	Sampled:	Jul-11-12	10:20	Jul-11-12 10:25		Jul-11-12 1	0:30	Jul-11-12 10:35		Jul-11-12 1	0:40	
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-13-12	05:02	Jul-13-12 0	5:18	Jul-13-12 0	5:34	Jul-13-12 0	5:50	Jul-13-12 0	6:06	
SUB: E871002	Analyzed:	Jul-13-12	05:02	Jul-13-12 0	5:18	Jul-13-12 0	5:34	Jul-13-12 0	5:50	Jul-13-12 0	6:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
Chloride		78.1	1.11	53.2	1.11	293	1.08	106	1.14	111	1.14	
Percent Moisture	Extracted:											
	Analyzed:	Jul-11-12	16:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	Jul-11-12 1	6:30	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		10.1	1.00	9.77	1.00	7.83	1.00	12.5	1.00	12.3	1.00	
TPH By SW8015 Mod	Extracted:	Jul-11-12	16:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	Jul-11-12 1	6:00	
	Analyzed:	Jul-12-12	04:27	Jul-12-12 0	4:56	Jul-12-12 0	5:25	Jul-12-12 0	5:53	Jul-12-12 0	7:26	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	
C6-C12 GRO		ND	16.7	ND	82.7	18.5	16.2	ND	17.1	25.4	17.0	
C12-C28 DRO		809	16.7	1710	82.7	2940	16.2	820	17.1	580	17.0	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Nicholas Straccione Project Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Certified and approved by numerous States and Agencies.

LOQ Limit of Quantitation

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Final 1.000



Project Name: State G

Vork Orders: 445445 Lab Batch #: 892030	, Sample: 445445-001 / SMP	Bate		D: 042079-20	012-02						
Units: mg/kg	Date Analyzed: 07/12/12 01:29		JRROGATE R		STUDY						
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
1-Chlorooctane		82.1	99.8	82	70-135						
o-Terphenyl		45.3	49.9	91	70-135						
Lab Batch #: 892030	Sample: 445445-002 / SMP	Batch: 1 Matrix: Solid									
Units: mg/kg	Date Analyzed: 07/12/12 01:58	SU	JRROGATE R	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane	Analytes	86.1	100	86	70-135						
o-Terphenyl		46.6	50.0	93	70-135						
Lab Batch #: 892030	Sample: 445445-003 / SMP				10 100						
	- F	Batch: 1 Matrix: Solid SURROGATE RECOVERY STUDY									
Units: mg/kg	Date Analyzed: 07/12/12 02:27 By SW8015 Mod	Amount Found	True Amount	Recovery	Control Limits	Flags					
	Analytes	[A]	[B]	%R [D]	%R						
1-Chlorooctane		87.9	99.6	88	70-135						
o-Terphenyl		47.7	49.8	96	70-135						
Lab Batch #: 892030	Sample: 445445-004 / SMP	Bate	ch: 1 Matrix	:Solid							
Units: mg/kg	Date Analyzed: 07/12/12 02:55	SU	JRROGATE R	ECOVERY	STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags					
1-Chlorooctane		89.3	99.7	90	70-135						
o-Terphenyl		49.2 49.9 99 70-135									
Lab Batch #: 892030	Sample: 445445-005 / SMP	Bate	ch: 1 Matrix	c:Solid							
Units: mg/kg	Date Analyzed: 07/12/12 03:25	SURROGATE RECOVERY STUDY									
TPH 1	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags					
	Analytes			[D]							
1-Chlorooctane	Analytes	93.6	99.8	94	70-135						

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

York Orders : 445445 Lab Batch #: 892030	, Sample: 445445-006 / SMP	-006 / SMP Batch: 1 Matrix: Solid										
Units: mg/kg	Date Analyzed: 07/12/12 03:57		JRROGATE R		STUDY							
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
	Analytes			[D]								
1-Chlorooctane		85.1	99.8	85	70-135							
o-Terphenyl		45.8 49.9 92 70-135										
Lab Batch #: 892030	Sample: 445445-007 / SMP											
Units: mg/kg	Date Analyzed: 07/12/12 04:27	SU	JRROGATE R	ECOVERY	STUDY							
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane	Anarytes	91.1	100	91	70-135							
o-Terphenyl		50.0	50.1	100	70-135							
Lab Batch #: 892030	Sample: 445445-008 / SMP	Bato	-	• Solid								
Units: mg/kg	Date Analyzed: 07/12/12 04:56				COVERY STUDY							
	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag						
1.011	Analytes											
1-Chlorooctane		92.0	99.5	92	70-135							
o-Terphenyl		50.0	49.8	100	70-135							
Lab Batch #: 892030	Sample: 445445-009 / SMP	Bato		-								
Units: mg/kg	Date Analyzed: 07/12/12 05:25	SU	JRROGATE R	ECOVERY	STUDY							
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flage						
1-Chlorooctane		87.7	99.8	88	70-135							
o-Terphenyl		47.5	49.9	95	70-135							
Lab Batch #: 892030	Sample: 445445-010 / SMP	P Batch: 1 Matrix: Solid										
Units: mg/kg	Date Analyzed: 07/12/12 05:53	SURROGATE RECOVERY STUDY										
TPH]	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flag						
					1							
1-Chlorooctane	Analytes	90.6	99.7	91	70-135							

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Vork Orders : 445445		Det	0	D: 042079-20	012-02							
Lab Batch #: 892030	Sample: 445445-011 / SMP Date Analyzed: 07/12/12 07:26	Bate SI	ch: ¹ Matrix JRROGATE R		STUDY							
Units: mg/kg	By SW8015 Mod	Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags						
	Analytes			[D]								
1-Chlorooctane		88.2	99.5	89	70-135							
o-Terphenyl		47.9	49.8	96	70-135							
Lab Batch #: 892030	Sample: 624446-1-BLK / BI											
Units: mg/kg	Date Analyzed: 07/12/12 01:01	SU	JRROGATE R	ECOVERY	STUDY							
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane	Analytes		100		70.125							
o-Terphenyl		<u>88.9</u> 49.8	100	89	70-135							
1 0	~				/0-133							
Lab Batch #: 892030	Sample: 624446-1-BKS / BI											
Units: mg/kg	Date Analyzed: 07/12/12 00:03	SU	SURROGATE RECOVERY STUDY									
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane		155	100	155	70-135	**						
o-Terphenyl		93.5	50.0	187	70-135	**						
Lab Batch #: 892030	Sample: 624446-1-BSD / BS	SD Bate	ch: 1 Matrix	:Solid	1							
Units: mg/kg	Date Analyzed: 07/12/12 00:32		JRROGATE R		STUDY							
	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane		97.9	100	98	70-135							
o-Terphenyl		49.9	50.0	100	70-135							
Lab Batch #: 892030	Sample: 445445-002 S / MS	Bato	ch: 1 Matrix	c:Solid								
Units: mg/kg	Date Analyzed: 07/12/12 07:56	SURROGATE RECOVERY STUDY										
TPH	By SW8015 Mod	Amount Found	True Amount	Recovery %R	Control Limits %R	Flags						
	Analytes	[A]	[B]	[D]	,011							
1-Chlorooctane	Analytes	[A]	[B]		70-135							

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Work Orders : 445445	,	Project ID: 042079-2012-02										
Lab Batch #: 892030	Sample: 445445-002 SD / M											
Units: mg/kg	Date Analyzed: 07/12/12 08:26	SU	RROGATE RI	ECOVERY S	STUDY							
ТРН І	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags						
1-Chlorooctane		103	100	103	70-135							
o-Terphenyl		51.2	50.0	102	70-135							

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution





Project Name: State G

Work Order #: 445445		Project ID: 042079-2012-02										
Analyst: TTE		Da	ate Prepar	ed: 07/13/201	2			Date A	nalyzed: (07/13/2012		
Lab Batch ID: 892136	Sample: 624506-1-B	SKS	Batcl	n#: 1					Matrix: S	Solid		
Units: mg/kg			BLAN	K /BLANK S	SPIKE / B	BLANK S	PIKE DUPI	ICATE 1	RECOVE	ERY STUD	Y	
Inorganic Anions by I	EPA 300/300.1	Blank Sample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]	[C]	[D]	[E]	Result [F]	[G]				
Chloride		<1.00	100	102	102	100	96.8	97	5	80-120	20	
		Date Prepared: 07/11/2012 Date Analyzed: 07/12/2012										
Analyst: KEB		Da	ate Prepar	ed: 07/11/201	2			Date A	nalyzed: ()	07/12/2012		
Analyst: KEB Lab Batch ID: 892030	Sample: 624446-1-B		-	ed: 07/11/201 n #: 1	2				nalyzed: () Matrix: S			
-	Sample: 624446-1-B		Batcl			BLANK S	PIKE DUPI		Matrix: S	Solid	Y	
Lab Batch ID: 892030	-		Batcl BLAN Spike Added	n #: 1 K /BLANK S Blank Spike Result	SPIKE / B Blank Spike %R	Spike Added	Blank Spike Duplicate	LICATE Blk. Spk Dup. %R	Matrix: S	Solid	Control Limits %RPD	Flag
Lab Batch ID: 892030 Units: ^{mg/kg}	-	BKS Blank Sample Result	Batcl BLAN Spike	n #: 1 K /BLANK S Blank Spike	BPIKE / B Blank Spike	Spike	Blank Spike	JCATE Blk. Spk Dup.	Matrix: S RECOVE	Solid ERY STUD Control Limits	Control Limits	Flag
Lab Batch ID: 892030 Units: ^{mg/kg} TPH By SW80	-	BKS Blank Sample Result	Batcl BLAN Spike Added	n #: 1 K /BLANK S Blank Spike Result	SPIKE / B Blank Spike %R	Spike Added	Blank Spike Duplicate	LICATE Blk. Spk Dup. %R	Matrix: S RECOVE	Solid ERY STUD Control Limits	Control Limits	Flag

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 445445 Lab Batch #: 892136				Pr	oiect ID:	042079-20	12-02
Date Analyzed: 07/13/2012	Date F	Prepared: 07/1	3/2012		nalyst: T		
QC- Sample ID: 445441-001 S		Batch #: 1		I	Matrix: S	olid	
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300		Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes		[A]	[B]				
Chloride		15.8	100	117	101	80-120	
Lab Batch #: 892136							
Date Analyzed: 07/13/2012	Date F	Prepared: 07/1	3/2012	A	nalyst: T	TE	
QC- Sample ID: 445445-011 S		Batch #: 1		I	Matrix: S	olid	
Reporting Units: mg/kg		MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300		Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes		[A]	[B]				
Chloride		111	114	204	82	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: State G



Work Order #: 445445 Project ID: 042079-2012-02 Lab Batch ID: 892030 QC- Sample ID: 445445-002 S Batch #: Matrix: Solid 1 **Date Prepared:** 07/11/2012 Analyst: KEB **Date Analyzed:** 07/12/2012 Reporting Units: mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control TPH By SW8015 Mod Sample Spike Result Sample Spiked Sample RPD Limits Spike Dup. Limits Flag Result Added [C] %R Added Result [F] %R %R %RPD % Analytes [A] [B] [D] [E] [G] C6-C12 GRO <16.3 1090 779 71 1090 784 72 1 70-135 35 C12-C28 DRO 925 1090 1640 1630 65 35 Х 66 1090 1 70-135

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

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Sample Duplicate Recovery



Project Name: State G

Work Order #: 445445

Lab Batch #: 892038 Date Analyzed: 07/11/2012 16:30 QC- Sample ID: 445445-001 D	Date Prepar Batch	ed:07/11/2012	2 Anal	Project I yst:WRU rix: Solid	D: 042079-2	2012-02
Reporting Units: %		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		11.9	10.8	10	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & AssociatesAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 07/11/2012 03:05:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 445445Temperature Measuring device used :

Sample Receipt Chee	cklist Comments
#1 *Temperature of cooler(s)?	3
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles/ container?	Yes
#6 *Custody Seals Signed and dated for Containers/coolers	Yes
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	Νο
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)	? Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaO	H? Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 07/11/2012

Checklist reviewed by:

Date: 07/11/2012

Analytical Report 445661

for

Conestoga Rovers & Associates

Project Manager: Desiree Crenshaw

State G

042079

20-JUL-12

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102), DoD (L11-54)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Kentucky (85), DoD (L10-135) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Lakeland: Florida (E84098) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code:AZ000989): Arizona (AZ0758)



20-JUL-12



Project Manager: **Desiree Crenshaw Conestoga Rovers & Associates** 2135 S Loop 250 W Midland, TX 79703

Reference: XENCO Report No: 445661 State G Project Address: New Mexico

Desiree Crenshaw:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 445661. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 445661 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully

Nicholas Straccione Project Manager

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Sample Cross Reference 445661



Conestoga Rovers & Associates, Midland, TX

State G

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Site A SW	S	07-13-12 13:00	0 - 2.5	445661-001
Site B SW Wall	S	07-13-12 13:05	0 - 2.5	445661-002
Site B NE Wall	S	07-13-12 13:10	0 - 2.5	445661-003



CASE NARRATIVE

Client Name: Conestoga Rovers & Associates Project Name: State G



Project ID:042079Work Order Number:445661

Report Date: 20-JUL-12 Date Received: 07/13/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





445661

Conestoga Rovers & Associates, Midland, TX

State G								
Sample Id: Site A SW		Matrix: Soil		% Moisture: 5.	95			
Lab Sample Id: 445661-001	Date Co	Date Collected: Jul-13-12 13:00			ry Weight			
Sample Depth: 0 - 2.5	Date Ree	ceived: Jul-13-1						
Analytical Method: Inorga	nic Anions by EPA 300/.	300.1		Prep Metho	od: E300P			
Seq Number: 892429				Date Prep): Jul-17-1	2 11:07		
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil		
Chloride	16887-00-6	2820	mg/kg	07/17/12 11:07		10		
Analytical Method: TPH B	sy SW8015 Mod			Prep Metho	d: TX1005	P		
Seq Number: 892326	Date Prep: Jul-16-12 08					2 08:30		
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil		
TPH_DRO	PHCG1028	548	mg/kg	07/16/12 12:42		1		







State (G
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Sample Id: Site A SW Lab Sample Id: 445661-001 Sample Depth: 0 - 2.5	Date Col	Matrix: Soil Date Collected: Jul-13-12 13:00 Date Received: Jul-13-12 17:32			% Moisture: Basis: Wet Weight		
Analytical Method: Percent Moisture Seq Number: 892320							
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil	
Percent Moisture	TMOIST	5.95	%	07/16/12 12:00		1	





445661

Conestoga Rovers & Associates, Midland, TX

Sample Id: Site B SW Wal Lab Sample Id: 445661-002 Sample Depth: 0 - 2.5	45661-002 Date Collected: Jul-13-12 13:05 B				14 ry Weight	
Analytical Method: Inorgan Seq Number: 892429	Prep Method: E300P Date Prep: Jul-17-12 11:39					
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	430	mg/kg	07/17/12 11:39		10
Analytical Method: TPH By	SW8015 Mod			Prep Metho	d: TX1005	Р
Seq Number: 892326				Date Prep	o: Jul-16-1	2 08:30
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
TPH _GRO	PHC612	19.5	mg/kg	07/16/12 13:14		1
TPH_DRO	PHCG1028	1060	mg/kg	07/16/12 13:14		1







State	G
-------	---

Sample Id: Site B SW Wall Lab Sample Id: 445661-002 Sample Depth: 0 - 2.5	Date Col	Matrix: Soil Date Collected: Jul-13-12 13:05 Date Received: Jul-13-12 17:32		% Moisture: Basis: W	et Weight		
Analytical Method: Percent Moisture Seq Number: 892320							
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil	
Percent Moisture	TMOIST	6.14	%	07/16/12 12:00		1	







	_	State G				
Sample Id: Site B NE Wall Matrix: Soil				% Moisture: 6.	22	
Lab Sample Id: 445661-003	Date Co	llected: Jul-13-1	2 13:10	Basis: D	ry Weight	
Sample Depth: 0 - 2.5	Date Re	ceived: Jul-13-1				
Analytical Method: Inorganic Seq Number: 892429	Prep Method: E300P Date Prep: Jul-17-12 11:55					
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
Chloride	16887-00-6	40.0	mg/kg	07/17/12 11:55		1
Analytical Method: TPH By S	W8015 Mod			Prep Metho	d: TX1005	Р
Seq Number: 892326				Date Prep): Jul-16-1	2 08:30
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil
TPH_DRO	PHCG1028	1020	mg/kg	07/16/12 13:47		1







Sample Id: Site B NE Wall Lab Sample Id: 445661-003 Sample Depth: 0 - 2.5	Date Col	Matrix: Soil Date Collected: Jul-13-12 13:10 Date Received: Jul-13-12 17:32			% Moisture: Basis: Wet Weight		
Analytical Method: Percent Moisture Seq Number: 892320							
Parameter	Cas Number	Result	Units	Analysis Date	Flag	Dil	
Percent Moisture	TMOIST	6.22	%	07/16/12 12:00		1	



Project Id: 042079

Project Location: New Mexico

Contact: Desiree Crenshaw

Certificate of Analysis Summary 445661

Conestoga Rovers & Associates, Midland, TX

Project Name: State G



Date Received in Lab: Fri Jul-13-12 05:32 pm

Report Date: 20-JUL-12

Project Manager: Nicholas Straccione

	Lab Id:	445661-0	01	445661-0	02	445661-0	03		
Analysis Requested	Field Id:	Site A S	Site A SW		Site B SW Wall		Wall		
Analysis Kequesieu	Depth:	0-2.5		0-2.5		0-2.5			
	Matrix:	SOIL		SOIL		SOIL			
	Sampled:	Jul-13-12 1	3:00	Jul-13-12 1	3:05	Jul-13-12 13:10			
Inorganic Anions by EPA 300/300.1	Extracted:	Jul-17-12 1	1:07	Jul-17-12 1	1:39	Jul-17-12 1	1:55		
SUB: TX104704215	Analyzed:	Jul-17-12 1	1:07	Jul-17-12 1	1:39	Jul-17-12 11:55			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
Chloride		2820	10.6	430	10.7	40.0	1.07		
Percent Moisture	Extracted:								
	Analyzed:	Jul-16-12 1	2:00	Jul-16-12 12:00		Jul-16-12 12:00			
	Units/RL:	%	RL	%	RL	%	RL		
Percent Moisture		5.95	1.00	6.14	1.00	6.22	1.00		
TPH By SW8015 Mod	Extracted:	Jul-16-12 0	8:30	Jul-16-12 0	8:30	Jul-16-12 0	8:30		
	Analyzed:	Jul-16-12 1	Jul-16-12 12:42		Jul-16-12 13:14		3:47		
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL		
TPH _GRO		ND	15.9	19.5	15.9	ND	16.0		
TPH_DRO		548	15.9	1060	15.9	1020	16.0		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Ctr. Nul

Nicholas Straccione Project Manager

Page 11 of 20



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- **RL** Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
----------------------------	-----------------------------------	------------------------

- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- NELAC certification not offered for this compound.
- (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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(602) 437-0330	

Final 1.000



Project Name: State G

Vork Orders: 445661 Lab Batch #: 892326	, Sample: 445661-001 / SMP	Bate		D: 042079				
Units: mg/kg	Date Analyzed: 07/16/12 12:42	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1-Chlorooctane		87.6	99.9	88	70-135			
o-Terphenyl		46.4	50.0	93	70-135			
Lab Batch #: 892326	Sample: 445661-002 / SMP	Bate						
Units: mg/kg	Date Analyzed: 07/16/12 13:14	SU	RROGATE R	ECOVERY	STUDY			
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		88.8	99.6	89	70-135			
o-Terphenyl		48.3	49.8	97	70-135			
Lab Batch #: 892326	Sample: 445661-003 / SMP	Bate	h: ¹ Matrix	:Soil	1			
Units: mg/kg	Date Analyzed: 07/16/12 13:47	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1.011	Analytes				50.105			
1-Chlorooctane o-Terphenyl		88.5	99.8	89 95	70-135			
		47.2	49.9		70-135			
Lab Batch #: 892326	Sample: 624650-1-BLK / BL							
Units: mg/kg	Date Analyzed: 07/16/12 12:09	SU	RROGATE R	ECOVERY	STUDY			
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		89.4	100	89	70-135			
o-Terphenyl		47.5	50.0	95	70-135			
Lab Batch #: 892326	Sample: 624650-1-BKS / BK	S Bate	h: 1 Matrix	Solid				
Units: mg/kg	Date Analyzed: 07/17/12 00:28	SURROGATE RECOVERY STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		114	100	114	70-135			
o-Terphenyl		57.3	50.0	115	70-135			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution



Project Name: State G

Vork Orders: 445661	·		Project II					
Lab Batch #: 892326	Sample: 624650-1-BSD / B	Sample: 624650-1-BSD / BSD Batch: 1 Matrix: Solid						
Units: mg/kg	Date Analyzed: 07/17/12 00:58	SURROGATE RECOVERY STUDY						
TPH	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags			
1-Chlorooctane	Analytes	103	100	103	70-135			
o-Terphenyl		55.9	50.0	112	70-135			
Lab Batch #: 892326	Sample: 445607-003 S / MS	S Batc	h: 1 Matrix	Solid	·			
Units: mg/kg	Date Analyzed: 07/16/12 23:28	SURROGATE RECOVERY STUDY						
TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R	Control Limits %R	Flags		
	Analytes			[D]				
1-Chlorooctane		113	100	113	70-135			
o-Terphenyl		56.5	50.0	113	70-135			
Lab Batch #: 892326	Sample: 445607-003 SD / N	MSD Batc	h: 1 Matrix	Solid				
Units: mg/kg	Date Analyzed: 07/16/12 23:58	SURROGATE RECOVERY STUDY						
TPH	By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags		
1-Chlorooctane		104	100	104	70-135			
o-Terphenyl		51.1	50.0	102	70-135			

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution





Project Name: State G

Work Order #: 445661	_	Project ID: 042079									
Analyst: TTE	E	Date Prepar	red: 07/17/201	12	Date Analyzed: 07/17/2012						
Lab Batch ID: 892429 Sa	mple: 624711-1-BKS	Batc	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK S	SPIKE / H	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	Y	
Inorganic Anions by EPA	300/300.1 Blank Sample Result [A]	Spike Added	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[0]	[0]			Kesuit [1]	[0]				
Chloride	<1.00	100	104	104	100	105	105	1	80-120	20	
Analyst: KEB	Γ	Date Prepared: 07/16/2012 Date Analyzed: 07/17/2012									
Lab Batch ID: 892326 Sa	mple: 624650-1-BKS	Bate	h #: 1					Matrix: S	Solid		
Units: mg/kg		BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY									
TPH By SW8015 M	od Blank Sample Result [A]	Spike Added	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes		[D]		נטן	[E]	Kesult [F]	[6]				
TPH _GRO	<15.0	1000	776	78	1000	782	78	1	70-135	35	
TPH_DRO	<15.0	1000	937	94	1000	928	93	1	70-135	35	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS Recoveries

Project Name: State G

Work Order #: 445661						
Lab Batch #: 892429			Pro	oject ID:	042079	
Date Analyzed: 07/17/2012 Date	Date Prepared: 07/17/2012Analyst: TTE					
QC- Sample ID: 445661-001 S	Batch #: 1 Matrix: Soil					
Reporting Units: mg/kg	MATRIX / MATRIX SPIKE RECOVERY STUDY					DY
Inorganic Anions by EPA 300	Parent Sample Result	Spike Added	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Analytes						
Chloride	2820	1060	4000	111	80-120	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $[E] = 200^{*}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Form 3 - MS / MSD Recoveries

Project Name: State G



Work Order #: 445661 Project ID: 042079 Lab Batch ID: 892326 QC- Sample ID: 445607-003 S Matrix: Solid Batch #: 1 **Date Prepared:** 07/16/2012 Analyst: KEB **Date Analyzed:** 07/16/2012 **Reporting Units:** mg/kg MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control TPH By SW8015 Mod Sample Spike Result Sample Spiked Sample RPD Limits Spike Dup. Limits Flag Result Added [C] %R Added Result [F] %R %R %RPD % Analytes [A] [B] [D] [E] [G] TPH_GRO <16.5 1100 772 70 1100 781 71 1 70-135 35 TPH_DRO 1100 939 85 942 86 0 70-135 35 <16.5 1100

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference $RPD = 200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: State G

Work Order #: 445661

Lab Batch #: 892320 Date Analyzed: 07/16/2012 12:00 QC- Sample ID: 445661-001 D	Date Prepar Batch	red: 07/16/2012	2 Anal	Project I l yst: WRU rix: Soil	D: 042079	
Reporting Units: %		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
Percent Moisture Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture		5.95	5.85	2	20	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit
Relinguished by: Date		Relinquished by: Date	Special Instructions:					WE WE WE WE		2 S.t. P S	1 5,+0	_AB # (lab use only) 피 떠 다 다 다 다 다	ORDER # TTO UUI	(lab use only)	Sampler Signature:	Telephone No: 4326	City/State/Zip: Muddle	Company Address: 2135		Project Manager:	Xenco Laboratories The Environmental Lab of Texas
	Time	Time	1									Beginning Depth	_			230	þ	N		3	
		\mathbf{r}						Ĵ	ñ	S S	2.5	Ending Depth				£	F	100		00:	
Received by EBOU	Received by:	Received by:							<		7-12-12	Date Sampled				4310	ELE >	Þ		renshars	
I Kul	<i>h</i>							1 31 9	1211	1305	1300	Time Sampled			e-mail:	Fax No:	to Por Bi	250W			·
								_				Field Filtered	4		0	ł					
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XENCO Laboratories



Comments

Prelogin/Nonconformance Report- Sample Log-In

Client: Conestoga Rovers & AssociatesAcceptable Temperature Range: 0 - 6 degCDate/ Time Received: 07/13/2012 05:32:00 PMAir and Metal samples Acceptable Range: AmbientWork Order #: 445661Temperature Measuring device used :

Sample Receipt Checklist	(
#1 *Temperature of cooler(s)?	.5
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	N/A
#5 Custody Seals intact on sample bottles/ container?	N/A
#6 *Custody Seals Signed and dated for Containers/coolers	N/A
#7 *Chain of Custody present?	Yes
#8 Sample instructions complete on Chain of Custody?	Yes
#9 Any missing/extra samples?	No
#10 Chain of Custody signed when relinquished/ received?	Yes
#11 Chain of Custody agrees with sample label(s)?	Yes
#12 Container label(s) legible and intact?	Yes
#13 Sample matrix/ properties agree with Chain of Custody?	Yes
#14 Samples in proper container/ bottle?	Yes
#15 Samples properly preserved?	Yes
#16 Sample container(s) intact?	Yes
#17 Sufficient sample amount for indicated test(s)?	Yes
#18 All samples received within hold time?	Yes
#19 Subcontract of sample(s)?	Yes
#20 VOC samples have zero headspace (less than 1/4 inch bubble)?	Yes
#21 <2 for all samples preserved with HNO3,HCL, H2SO4?	Yes
#22 >10 for all samples preserved with NaAsO2+NaOH, ZnAc+NaOH?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Date: 07/16/2012

Checklist reviewed by:

Date: 07/16/2012

APPENDIX D









APPENDIX E

This Memorandu	Im is an acknowledgment th Bill of Lading, nor a copy			Shipper No.	ipper No. <u>645</u>		
	intended solely for filing		un en el el construction de la cons		- Carrier No.	73600	
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provided by such provisions. See NMFC (3) Commodities requiring special or ac must be so marked and packaged as to	Item 172. (ditional care or attention in handling or stowing ensure safe transportation. See Section 2(e) of and Statements of Charges and Section 1(a) of	international and national governmental regulations.	consignee without recourse following statement:	e on the consignor, the consignor ake delivery of this shipment witho	shall sign the CHAR ut payment of FF	GES \$	IGES
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the property desc tents of packages (the word carrier possession of the nation, if on its ro	nibed above in apparent good order, except as not s unknown), marked, consigned, and destined as is being understood throughout this contract as mea property under the contract) agrees to carry to its u ute, otherwise to deliver to another carrier on the n each carrier of all or any of, said property over all of	ed (contents and condition of con- indicated above which said carrier uning any person or corporation in sual place of delivery at said desti- bute to said destination. It is mutu-	performed hereund sification on the date Shipper here	ler shall be subject to all the bill of lad of shipment. by certifies that he is familiar with ation and the said terms and conditi	ing terms and conditions in all the lading terms an	the governing cl d conditions in	as- Ihe
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PLAC	ARDS TEN	NDERED: YES 🗖 NO 🗖	±:	REMIT C.O.D. TO:		I		L	
specifically in writing the agreed or declared value	e agreed or decla e of the property is	nt on value, shippers are required to state ared value of the property, as follows: "The s hereby specifically stated by the shipper to	I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping	ADDRESS		C.O.D.	FEE:		
(2) Where the applicable a release or a value d the carrier's liability or d	leclaration by the leclare a value, the	per becify a limitation of the carrier's liability absent shipper and the shipper does not release a carrier's liability shall be limited to the extent	name and are classified, packaged marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable	Subject to Section 7 of the co	Amt: \$	COLLE felivered to the TOTAL	CT 🗆 💲	12	
must be so marked and	ng special or addil packaged as to er g, Freight Bills and	tional care or attention in handling or stowing nsure safe transportation. See Section 2(e) of d Statements of Charges and Section 1(a) of	international and national governmental regulations.	following statement: The carrier shall not make freight and all other lawful charg	delivery of this shipment witho	ut payment of FREIGHT	EIGHT CHAP	RGES eck box if charges are to be collect	
te (l p	he property describ ents of packages u the word carrier be ossession of the pr ation, if on its route	et to the classifications and tariffs in effect on the de ed above in apparent good order, except as not inknown), marked, consigned, and destined as i ing understood throughout this contract as mea operty under the contract) agrees to carry to its u e, otherwise to deliver to another carrier on the ro ch carrier of all or any of, said property over all c	ed (contents and condition of con- indicated above which said carrier ining any person or corporation in sual place of delivery at said desti- jute to said destination. It is mutu-	performed hereunder s sification on the date of s Shipper hereby	certifies that he is familiar with n and the said terms and conditi	ng terms and conditions in all the lading terms an	the governing c	las- the	
SHIPPER	PRA	~			iy Calda				
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Da	6-		7 -	DATE 7-	11-12				
Permanent post-of	ffice address c	of shipper.	RECYCLED FAFER	STYLE CF365-4 @ 20	003 LABELMASTER® (8	300) 621-5808 www	labelmaster.	com	