Site Characterization Report of Oil and Gas-Related Spills in Red Bluff Draw, New Mexico



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PREPARED FOR



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PREPARED BY



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1 Introduction

This report provides the results and interpretations of soil, surface water and vegetation sampling within Red Bluff Draw in order to delineate oil and gas related spills that took place on New Mexico State Trust land in September and October 2014. The initial survey and subsequent sampling effort was conducted by GL Environmental Inc. from May 4 – May 29, 2015.

Red Bluff Draw drains an approximate 100,000 acre west to east sloping watershed and joins the Pecos River 5.5 miles north of the Texas / New Mexico border. Surface water within the meandering channel is intermittent with pools of water separated by dry stretches. Soils within the project area range from shallow to deep calcareous to gypsiferous silty loams within the floodplains and silty fine sand to coarse sand with pebbles of mixed parent rock within the channel. Consolidated gypsum, siltstone and dolomite from the Rustler formation outcrop or shallowly underlie the majority of the project area.

In September of 2014 sustained storm events in the Red Bluff Draw watershed resulted in a significant flood event. On September 19, 2014 flood waters overran the COG Operating LLC Crossman 25 State #1H well pad, washing tanks and equipment and a large portion of the pad downstream with the flood waters. Tanks and equipment were transported up to 2 miles downstream of the well pad. The majority of the contents of the steel tanks were drained during the flood event and the fiberglass tanks were torn apart. COG Operating LLC reported 280 bbl oil and 100 bbls produced water were released with no recovery.

On September 26, 2014 a Mewbourne Oil Company HDPE salt water disposal line that ran alongside the west side of the Highway 285 bridge was damaged by debris and floodwaters within the draw. The damaged line was discovered on September 28, 2014 at which time the line was capped to stop the release. Mewbourne reported that the draw was affected from the bridge to approximately 6,000 ft downstream by the release. Oil was initially recovered from the surface water with vacuum trucks and skimmers and a continued cleanup effort utilized hydrocarbon absorbing pads and booms. Mewbourne reported that 253 bbls oil and 1,473 bbls of produced water were released while 253 bbls oil and 267 bbls produced water /flood water were recovered.

On October 10, 2014 a Yates Petroleum Corporation buried salt water disposal line ruptured which was discovered the same day and affected an approximate 300 ft x 1,500 ft area on the banks and channel of the draw. Yates reported that 20 bbls oil and 500 bbls of produced water were released while 15 bbls oil and 375 bbls of produced water were recovered. Vacuum trucks and a roustabout crew were called to recover oil and produced water and fence off the immediate affected area. Upland areas and a portion of the draw channel were bermed to isolate affected areas. Some soils were excavated from the upland release site and hauled off-site for disposal.

This summary of the release events that occurred in September and October 2014 has been taken from each companies' accounts presented in the New Mexico Oil Conservation Division Form C-141 and interviews conducted with company representatives.

2 METHODS

GL Environmental, Inc. completed a review of operator reports, state and federal agency reports and scientific literature to compile report background information and to support the sampling strategy and conclusions. A site reconnaissance was conducted from May 4 – May 6, 2015 to identify appropriate sample locations and sample media that would determine the presence of salts and petroleum products present within Red Bluff Draw as a result of the September and October 2014 releases. The site visit also included a pedestrian survey to delineate visible deposits of petroleum products. Samples were collected from May 26 to May 28, 2015 from surface water, soil and channel sediments.

Sample containers were prepared in advance of actual sample collection for the analytes of interest and included sample preservatives where necessary. During sampling, proper protective clothing and equipment decontamination procedures were used to avoid contamination of the samples. The samples were placed in cooled ice chests for storage and shipped to Hall Environmental Analysis Laboratory on a daily basis under standard chain-of custody procedures.

2.1 Soil

Soil from each sample location was collected from a maximum of five discrete depth intervals. Depth intervals consisted of surface to 0.5 ft, 0.5 ft – 1.5 ft, 1.5 ft - 2.5 ft, 2.5 ft – 3.5 ft and 3.5 ft – 4 ft below the ground surface (bgs). Soil samples were collected with a mobile equipment mounted geo-probe coring device which functions by advancing a hollow steel sample tube into the soil using a direct push in combination with percussion energy when required. Soil samples were retrieved in decontaminated 1.25 in OD clear PVC tube liners. Sampling was not completed to four feet at several locations due to the presence of hardened consolidated material at depth. A hand coring device was implemented at four sample locations that were inaccessible to the geo-probe rig due to rough terrain and excessive mud (Soil 4, Soil 25, Soil 28 and Soil 29). Upon completion of core collection the sample holes were filled with 3/8 in bentonite pellets to the surface in order to plug the hole.

2.2 Surface Water

Surface water samples were collected by hand using a decontaminated 1 liter sample container. The container was filled from several locations within the selected surface water pool and then used to fill the appropriate sample containers.

2.3 Sediments

Sediments were collected with a decontaminated trowel from several locations within pools of standing water. Sediment samples consisted of the uppermost 0.5 ft of material on the bottom of the pools. The sediment substrate appeared to consist of mostly organic material with some silt and clay.



3 SAMPLE LOCATIONS AND DESCRIPTIONS

Three soil samples were collected along a transect perpendicular to the channel (Soil 1 – Soil 3) in the reference area in order to characterize soil conditions in cross-section across the draw. A fourth soil sample (Soil 4) was collected downstream within the channel bed. A surface water and sediment sample (SW 1 and Sed 1) were collected from an open stretch of water just west of the soil sampling area (Map 1. Red Bluff Draw – Reference Sample Area).

Three soil cores, collected from the COG Operating LLC Crossman 25 State #1H well pad, were composited into single soil samples from each of the corresponding depths (Soil 5). Three soil samples were collected in a cross-section directly down-gradient of the well pad (Soil 6 - Soil 8) and one soil sample (Soil 9) was collected from the braided channels 200ft further down-gradient.

A surface water and sediment sample (SW 2 and Sed 2) were collected from the pool immediately west (up-gradient) of the well pad. A surface water sample and sediment sample (SW 3 and Sed 3) were also collected at the nearest downstream surface water location, approximately 3,500ft to the east of the well pad (Map 2. Red Bluff Draw – COG Operating Well Pad Sample Area).

One soil sample was collected directly up-gradient of the tank #1 location (Soil 19), one in between the tank #1 and tank #2 locations (Soil 18) and one down-gradient of the tank #2 location (Soil 17). Four additional soil samples were collected at Soil 13, Soil 14, Soil 15, and Soil 16 in order to characterize soil conditions in cross-section across the draw below the two tanks (Map 3. Red Bluff Draw – Tanks Sample Area).

One soil sample was collected directly up-gradient of the tank #3 site and one down-gradient (Soil 12 and Soil 11 respectively). A third soil sample (Soil 10) was collected within the channel bottom just south of a buried pipeline.

A surface water, sediment and soil sample (SW 4, Sed 4 and Soil 21) were collected within the channel bottom west (up-stream) of where the Yates release entered into the draw. Two soil samples (Soil 22 and Soil 23) were collected outside of the draw between the Yates release location and the earthen berm along the south bank of the draw. A surface water, sediment and soil sample (SW 6 and Sed 6 and Soil 20) were collected from within the bermed area in the channel bottom north of the Yates release site. One surface water and sediment sample were collected in the canal south of the bermed area (SW 5, Sed 5) (Map 4. Red Bluff Draw – Highway 285 Bridge).

Six soil samples and three sediment samples were collected downstream of the Highway 285 bridge (Soil 24-29 and Sed 6-8). Three of the soil samples (Soil 25, Soil 26, and Soil 27) were collected in order to characterize soil conditions in cross-section across the draw just east of the bridge. A water sample was collected at a relatively large pool of open water 0.5 miles east of the bridge (SW 6) and at a second location an additional 1.75mi downstream above the confluence of Red Bluff Draw and the Pecos River (SW 8, Map 4. Red Bluff Draw – Highway 285 Bridge).

4 RESULTS

4.1 Site Characteristics

4.1.1 Vegetation

Vegetation within the reference area is characteristic of saltcedar successional-disturbance vegetation type on a water course that likely formerly supported plains riparian vegetation. Recent precipitation has produced a flush of flowering annuals within and around the channel and floodplain.

Vegetation around the COG Operating well pad was similar to the reference area, although no vegetation is present on the pad. Vegetation in the vicinity of the COG Operating pad and downstream tank locations is characteristic of floodplain riparian vegetation including some scattered saltcedar (partially burned). Flowering annuals interspersed with mesquite and sand dropseed dominate this part of the floodplain with Saltcedar concentrated within the deeper channel. Small patches of vegetation within this area were recently burned along the channel edges, but not within the channel.

Mesquite and sand dropseed dominate the floodplain in the portion of the draw that stretches from just above the Highway 285 bridge to a mile east (downstream) of the bridge, with numerous flowering annuals dispersed throughout. Saltcedar is abundant, but concentrated within the deeper channel. The burn rate was highest in the area between Highway 285 and one half mile east of the bridge, where burned mesquite, yucca, and saltcedar were observed on both banks of the draw. A relatively large area of burned salt cedar was observed on the southern bank of the draw in the southeastern reaches of the large continuous pool.

4.1.2 Soil

The major mapped soil units within the project area, as mapped by the NRCS Soil Survey, are Cottonwood, Reeves, Reagan and Pima soils mixed with outcrops of gypsum (NRCS Web Soil Survey 2015). The Cottonwood series consists of shallow, well drained soils that formed in loamy residuum overlying gypsum bedrock. These gently sloping to steep soils are on the summits and side slopes of hills and ridges. These soils are well drained with moderate permeability in the solum and very low permeability in the gypsum bedrock. The Reeves series consists of very deep soils that are moderately deep to gypsum material. They are well drained, moderately permeable soils that formed in calcareous and gypsiferous fine textured alluvium derived from gypsum beds. These soils are on hillslopes, plateaus, and basin floors. The Reagan series consists of very deep, well drained, moderately permeable soils that formed in calcareous loamy materials. These nearly level to gently sloping upland soils are on broad flats, filled valleys and fans. The Pima series consists of deep, well drained soils formed in stream alluvium. Pima soils are on alluvial fans and flood plains.

Soils observed during soil sampling were in general agreement with NRCS mapped soil units. Soils within the floodplains consisted of silty loam with sand. Soils within the channel ranged from a sandy silt with significant amounts of organic matter to a medium sand with pebbles. The bottom



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of nearly all of the sample cores collected within the channel were completed in a weakly cemented gypsiferous layer mixed with pebbles of siltstone and limestone or terminated upon encountering a consolidated gypsum layer. The thickness of the silty sandy soils overlying the gypsum material generally increased in depth in the downstream direction.

4.1.3 Geology

Surface deposits within the draw channel and adjacent flood plains are mapped as Pleistocene to Holocene aged alluvial sediments. Areas surrounding and directly underlying the draw are mapped as the Permian Rustler Formation which can attain a thickness of several hundred feet in the area. Just west of the project area, the Permian Salado Formation may be exposed at the surface within the draw and surrounding uplands. The Salado consists of halite and anhydrite with subordinate potash salts, dolomite and claystone to siltstone. The Salado can attain a thickness of over 1,000 ft (USGS 2003).

Observed alluvial deposits within the channel and floodplain are described in the soils section of this report. Outcrops of Rustler Formation were observed throughout the project area along the banks of the draw and within the channel bottom. The outcrops consisted of white/cream colored dolomite, orange-red siltstone to fine sandstone and gypsum. Sections of Rustler exposed in the banks of the draw were often capped with 3-6 ft of calcrete. The Salado Formation was not observed at the surface within the immediate project area.

4.1.4 Hydrology

Surface water

Surface water within the channel is intermittent with pools of water separated by dry stretches. Several of the pools in the project area are somewhat large ranging up to 50ft wide, hundreds of feet in length and several feet in depth. The stretches of surface water are likely interconnected by subsurface flows through the shallow alluvial deposits as evidenced by the occurrence of springs and low velocity flow within the pools. Additionally, saturated soils were observed in most cores collected within the draw channel above unconsolidated to consolidated gypsum. Continuous surface flows through the length of the draw appear to occur only in response to large storm events.

Groundwater

Depth to groundwater within the broader project area outside of the draw channel is approximately 80 - 100 feet. Depth to groundwater was approximated after a review of near-by well logs filed with the New Mexico Office of the State Engineer. According to the well logs groundwater was present within fine sandstone layers ranging from 10 - 35ft in thickness which are likely part of the Rustler Formation.

Local groundwater gradients could not be determined due to a lack of contemporaneous measurements within local wells, however a review of the ChevronTexaco 2005 Eddy Co. Depth to Groundwater map suggests the regional groundwater gradient follows the surface gradient and slopes to the east.



4.2 Pedestrian Survey

A survey of the project area was conducted May 4 - 6 with additional investigation performed May 26 - 29, 2015. The survey included a combination walking systematic transects across and along the draw and making observations while performing other tasks such as sample collection to identify and record the location and intensity of petroleum product deposits.

Observed petroleum products between the COG Operating well pad and the bermed area just west of the US 285 bridge are widely spaced and spotty with patches observed in vegetation and on surface soils. One 25 ft^2 – 30 ft^2 oil stain was observed in an upland location north of the tank 1 sampling location (See Map 5. Observed Petroleum Products).

Significant somewhat continuous deposits of petroleum were observed within the bermed area inside of the draw channel west of the Highway 285 bridge. The deposits consisted of a thin layer of petroleum material that coated large patches of the soil surface and vegetation. Additional large deposits were observed from the Highway 285 bridge to the east for approximately 0.5 miles. Oil staining was confined to a ring around the banks of the larger standing pools of water where the channel is deeply incised. Sediments within the pools possessed a hydrocarbon odor when disturbed. Petroleum deposits were dispersed over a wider area where the channel took on a braided nature. Most petroleum staining in the braided channels was confined to patches on the soil and vegetation. In general the concentration of petroleum patches within affected areas diminished with distance from the Highway 285 bridge. The results of the survey are displayed on Map 5.

4.3 Analytical Results

A total of 29 soil sample locations at multiple depths (128 samples), 8 water samples and 9 sediment samples were collected during the May sampling event. Chlorides were present in detectable concentrations in the majority of sample media and locations. Chloride concentrations ranged from 670 mg/l to 3,200 mg/l in surface water, 170 mg/kg to 720 mg/kg in sediments and from less than 7.5 mg/kg to 5,500 mg/kg in soils. Diesel range organics (DRO) were detected in one surface water sample (1.2 mg/l), ranged from 15 mg/kg – 210 mg/kg in four sediment samples where DRO was detected and from 10 mg/kg to 1,200 mg/kg in seven soil samples where DRO was detected.

Gasoline range organics (GRO) and benzene, toluene, ethylbenzene and xylenes (BTEX) were not detected in collected samples.

Table 1. Surface water and sediment analytical results

		Diesel Range
	Chloride	Organics - DRO
Sample ID	(mg/L)	(mg/L)
SW 1	3200	< 1.0
SW 2	1800	< 1.0
SW 3	760	< 1.0
SW 4	670	< 1.0
SW 5	1100	< 1.0
SW 6	1800	1.2
SW 7	1100	< 1.0
SW 8	2300	< 1.0
Sed 1	720	< 9.9
Sed 2	410	< 9.9
Sed 3	240	< 9.7
Sed 4	440	15
Sed 5	220	< 9.6
Sed 6	350	210
Sed 7	190	< 9.6
Sed 8	380	53
Sed 9	170	78

Table 2. Soil analytical results

g	Chloride	Diesel Range Organics - DRO	g	Chloride	Diesel Range Organics - DRO
Sample ID	(mg/L)	(mg/L)	Sample ID	(mg/L)	(mg/L)
Soil 1, 0 - 0.5ft	1600	< 10	Soil 4, 0 - 0.5ft	54	< 9.9
Soil 1, 0.5 - 1.5ft	200	< 10	Soil 4, 0.5 - 1.5ft	130	< 9.8
Soil 1, 1.5 - 2.5ft	190	< 9.8	Soil 5, 0 - 0.5ft	5500	1200
Soil 1, 2.5 - 3.5ft	70	< 9.9	Soil 5, 0.5 - 1.5ft	4600	< 10
Soil 2, 0 - 0.5ft	210	< 10	Soil 5, 1.5 - 2.5ft	3400	< 9.9
Soil 2, 1.0 - 1.5ft	46	< 10	Soil 5, 2.5 - 3.5ft	1900	< 9.8
Soil 2, 1.5 - 2.0ft	63	< 0.10	Soil 5, 3.5 - 4.0ft	2600	< 9.8
Soil 3, 0 - 0.5ft	39	< 9.9	Soil 6, 0 - 0.5ft	35	37
Soil 3, 0.5 - 1.5ft	78	< 10	Soil 6, 0.5 - 1.5ft	77	< 10
Soil 3, 1.5 - 2.5ft	260	< 9.8	Soil 6, 1.5 - 2.5ft	80	< 4.7
Soil 3, 2.5 - 3.5ft	280	< 9.9	Soil 6, 2.5 - 3.5ft	88	< 10
Soil 3, 3.5 - 4.0ft	210	< 10			



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Table 2. Soil Analytical Results (Continued)

	Chlorido	Diesel Range		Chlorido	Diesel Range
Sample ID	Chloride (mg/L)	Organics - DRO (mg/L)	Sample ID	Chloride (mg/L)	Organics - DRO (mg/L)
Soil 7, 0 - 0.5ft	7.2	< 10	Soil 16, 0 - 0.5ft	7.7	< 10
Soil 7, 0.5 - 1.5ft	23	< 9.8	Soil 16, 0.5 - 1.5ft	< 7.5	< 9.8
Soil 7, 0.5 - 1.5ft Soil 7, 1.5 - 2.5ft	85	< 10	Soil 16, 1.5 - 2.5ft	< 30	< 9.6
Soil 7, 2.5 - 3.5ft	130	< 9.9	Soil 16, 2.5 - 3.5ft	360	21
Soil 7, 3.5 - 4.0ft	190	< 9.8	Soil 16, 3.5 - 4.0ft	110	< 9.8
Soil 8, 0 - 0.5ft	< 7.5	10	Soil 17, 0 - 0.5ft	< 7.5	24
Soil 8, 0.5 - 1.5ft	< 7.5	< 10	Soil 17, 0.5 - 1.5ft	11	< 9.6
Soil 8, 0.5 - 1.5ft Soil 8, 1.5 - 2.5ft	< 7.5	< 10	Soil 17, 0.5 - 1.5ft Soil 17, 1.5 - 2.5ft	94	< 9.7
Soil 8, 2.5 - 3.5ft	< 7.5	< 9.7	Soil 17, 2.5 - 3.5ft	280	< 9.5
Soil 9, 0 - 0.5ft	12	14	Soil 17, 3.5 - 4.0ft	600	< 9.9
Soil 9, 0.5 - 1.5ft	51	< 10	Soil 18, 0 - 0.5ft	< 7.5	< 9.7
Soil 9, 1.5 - 2.5ft	52	< 9.7	Soil 18, 0.5 - 1.5ft	31	< 9.8
Soil 9, 2.5 - 3.5ft	62	< 10	Soil 18, 1.5 - 2.5ft	51	< 9.9
Soil 9, 3.5 - 4.0ft	83	< 10	Soil 18, 2.5 - 3.5ft	77	< 9.5
Soil 10, 0 - 0.5ft	32	< 9.8	Soil 19, 0 - 0.5ft	8.2	< 9.6
Soil 10, 0.5 - 1.5ft	40	< 9.9	Soil 19, 0.5 - 1.5ft	< 7.5	< 9.5
Soil 10, 0.5 - 1.5ft Soil 10, 1.5 - 2.5ft	18	< 10	Soil 19, 1.5 - 2.5ft	< 7.5	< 9.5
Soil 10, 2.5 - 3.5ft	10	< 9.7	Soil 19, 2.5 - 3.5ft	< 7.5	< 9.5
Soil 10, 3.5 - 4.0ft	16	< 10	Soil 19, 3.5 - 4.0ft	14	< 9.6
Soil 11, 0 - 0.5ft	13	< 9.8	Soil 20, 0 - 0.5ft	2600	< 10
Soil 11, 0.5 - 1.5ft	13	< 10	Soil 20, 0.5 - 1.5ft	150	< 9.5
Soil 11, 1.5 - 2.5ft	12	< 4.9	Soil 20, 0.5 - 1.5ft Soil 20, 1.5 - 2.5ft	100	< 10
Soil 11, 2.5 - 3.5ft	11	< 4.9 < 9.9	Soil 20, 1.5 - 2.5ft Soil 20, 2.5 - 3.5ft	95	< 10
Soil 11, 3.5 - 4.0ft	38	< 5.0	Soil 20, 3.5 - 4.0ft	130	< 10
Soil 12, 0 - 0.5ft	21	< 10	Soil 21, 0 - 0.5ft	3300	< 10
Soil 12, 0 - 0.5ft Soil 12, 0.5 - 1.5ft	< 7.5	< 10	Soil 21, 0 - 0.5ft Soil 21, 0.5 - 1.5ft	2500	< 10
Soil 12, 0.5 - 1.5ft Soil 12, 1.5 - 2.5ft	< 7.5	< 9.9	Soil 21, 1.5 - 2.5ft	1500	< 9.8
Soil 12, 2.5 - 3.5ft	< 7.5	< 10	Soil 21, 2.5 - 3.5ft	1900	< 9.4
Soil 13, 0 - 0.5ft	< 7.5	13	Soil 21, 3.5 - 4.0ft	1700	< 10
Soil 13, 0.5 - 1.5ft	< 7.5	< 10	Soil 22, 0 - 0.5ft	9.5	< 9.9
Soil 13, 1.5 - 2.5ft	19	< 5.0	Soil 22, 0.5 - 1.5ft	< 7.5	< 9.8
Soil 14, 0 - 0.5ft	< 7.5	< 5.0	Soil 22, 0.5 - 1.5ft Soil 22, 1.5 - 2.5ft	< 7.5	< 9.6
Soil 14, 0.5 - 1.5ft	64	< 9.7	Soil 22, 2.5 - 3.5ft	< 7.5	< 10
Soil 14, 0.5 - 1.5ft Soil 14, 1.5 - 2.5ft	69	< 9.7 < 9.9	Soil 22, 3.5 - 4.0ft	< 7.5	< 9.4
Soil 14, 2.5 - 3.5ft	99	< 10	Soil 23, 0 - 0.5ft	460	< 9.6
Soil 14, 2.5 - 3.5ft Soil 14, 3.5 - 4.0ft	120	< 9.9	Soil 23, 0.5 - 1.5ft	400 60	< 9.6
Soil 15, 0 - 0.5ft	< 7.5	< 9.8	Soil 23, 1.5 - 2.5ft Soil 23, 2.5 - 3.5ft	46 03	< 10 < 9.5
Soil 15, 0.5 - 1.5ft	< 7.5	< 10 < 10	Soil 23, 2.5 - 3.51t Soil 23, 3.5 - 4.0ft	93 340	< 9.5 < 9.5
Soil 15, 1.5 - 2.5ft	11		5011 45, 5.5 - 4.UII	3 4 0	< 7.3
Soil 15, 2.5 - 3.5ft	100	< 10			
Soil 15, 3.5 - 4.0ft	380	< 10			



Table 2. Soil Analytical Results (Continued)

	Chloride	Diesel Range Organics - DRO		Chloride	Diesel Range Organics - DRO
Sample ID	(mg/L)	(mg/L)	Sample ID	(mg/L)	(mg/L)
Soil 24, 0 - 0.5ft	85	< 10	Soil 27, 0 - 0.5ft	310	< 9.8
Soil 24, 0.5 - 1.5ft	58	< 9.8	Soil 27, 0.5 - 1.5ft	170	< 10
Soil 24, 1.5 - 2.5ft	64	< 9.5	Soil 27, 1.5 - 2.5ft	140	< 9.9
Soil 24, 2.5 - 3.5ft	85	< 9.7	Soil 27, 2.5 - 3.5ft	160	< 10
Soil 24, 3.5 - 4.0ft	88	< 10	Soil 28, 0 - 0.5ft	260	< 9.9
Soil 25, 0 - 0.5ft	220	< 9.7	Soil 28, 0.5 - 1.5ft	210	< 9.9
Soil 25, 0.5 - 1.5ft	81	< 9.7	Soil 28, 1.5 - 2.5ft	120	< 9.7
Soil 25, 1.5 - 2.5ft	98	< 9.4	Soil 29, 0 - 0.5ft	530	< 9.9
Soil 25, 2.5 - 3.5ft	70	< 9.8	Soil 29, 0.5 - 1.5ft	140	< 9.9
Soil 25, 3.5 - 4.0ft	70	< 9.9	Soil 29, 1.5 - 2.5ft	130	< 9.5
Soil 26, 0 - 0.5ft	180	< 9.8	Soil 29, 2.5 - 3.5ft	120	< 9.9
Soil 26, 0.5 - 1.5ft	170	< 9.4			
Soil 26, 1.5 - 2.5ft	110	< 9.6			
Soil 26, 2.5 - 3.5ft	66	< 10			

5 DISCUSSION

5.1 Vegetation

Because vegetation within the entire release area appeared healthy and not stressed overall, it was not inventoried by quantitative methods. None of the vegetation observed is particularly salt-tolerant; no obligate halophiles were observed. Very few burned and/or uprooted individuals appeared dead, and saltcedar, mesquite, and sand dropseed within the release area was leafing out at the time of the surveys.

5.2 Sampling Results

The sampling analytical results are discussed below and depicted on Maps 6 through 16.

5.2.1 Reference Area

Chlorides within the surface water and sediments in the reference area were the highest of any surface water or sediment location sampled at 3,200 mg/l and 720 mg/kg respectively (SW 1 and Sed 1). These concentrations likely reflect high natural salinities in the Red Bluff Draw environment and are possibly related to the near surface presence of the Salado Formation upstream of the reference area as indicated in geologic mapping (USGS 2003).

Chloride concentrations in soil samples collected along a transect perpendicular to the channel (Soil 1 – Soil 3) ranged from 1,600 mg/kg at the surface on the south side of the channel to 39 mg/kg at the surface on north side of the channel. A fourth soil sample (Soil 4), collected



downstream within the channel bed had relatively low chloride concentrations. (Map 2. Red Bluff Draw – Reference Area Sampling).

No DRO was detected in the reference area surface water, sediment or soil samples. No surface deposits of petroleum products were observed.

5.2.2 COG Operating LLC Crossman 25 State #1H Well Pad

The well pad was partially built in the channel bottom and appears to be constructed from imported material (observed gravel and cobble are rock types that do not occur locally). The remnants of the pad are highly eroded with ongoing erosion as a result of storm events. No obvious petroleum deposits were observed on the pad or within its immediate vicinity.

A small body of open water, present within the channel immediately west (upstream) of the well pad, was sampled as well as the nearest downstream surface water location, which is approximately 3,500ft to the east of the pad. Chlorides within the surface water and sediment samples to the west of the pad (SW 2 and Sed 2) were 1,800 mg/l and 410 mg/kg respectively. Chlorides within the surface water and sediments at the downstream surface water location (SW 3 and Sed 3) were 760 mg/l and 240 mg/kg respectively. No DRO was detected in the surface water or channel sediments in the pad area.

One soil sample (Soil 5) was composited from each of the corresponding depths of three cores collected from well pad. Reported chloride concentrations ranged from 5,500 mg/kg at the surface to 1,900 mg/kg at 2.5 to 3.5ft bgs. DRO results from the surface soil sample were 1,200 mg/kg. The elevated concentration of chlorides throughout the soil column and high concentration of DRO at the surface appear to reflect contamination within the pad material from releases associated with the site.

Four soil samples (Soil 6 – Soil 9) were collected from the braided channels east and directly down-gradient of the well pad, including three arranged in a cross-section perpendicular to the draw. Reported chloride concentrations ranged from less than 7.5 mg/kg to 190 mg/kg. Three soil samples (Soil 6, Soil 8 and Soil 9) reported detectable concentrations of DRO at the surface at 37 mg/kg, 10 mg/kg and 14 mg/kg respectively. Although detectable amounts of DRO were identified down-gradient of the well pad, the concentrations were low and appear to be confined to the surface.

5.2.3 Tanks #1 and #2

Two of the three displaced COG Operating steel oil tanks came to rest within 550ft of each other within the floodplain approximately 1.8mi downstream of the well pad, but north and east of the deeper channel. Small amounts of petroleum product were observed at the tank locations as well as in vegetation down-gradient (downstream) of the tanks.

A total of six soil samples were collected from the area. One soil sample was collected directly upgradient (northwest) of the tank #1 location (Soil 19) and one down-gradient (southwest, Soil 18). Chlorides concentrations were relatively low through the soil column at both locations ranging from less than 7.5 mg/kg to 77 mg/kg. DRO was not detected at either sample location.



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A soil sample was collected down-gradient of the tank #2 location (Soil 17) which yielded chloride concentrations between less than 7.5 mg/kg and 600 mg/kg. DRO was reported to be 24 mg/kg at the surface and not detected at deeper depths.

Four additional soil samples were collected at Soil 13 - Soil 16 in order to characterize soil conditions in a cross-section across the draw. Chloride concentrations ranged from less than 7.5 mg/kg to 380 mg/kg. DRO were detected at the surface in Soil 13 at 13 mg/kg and between 2.5 to 3.5ft bgs in Soil 16 at 24 mg/kg. Soil 13 is adjacent to the channel and Soil 16 is down-gradient of tank #2 and Soil 17, which also had detectable concentrations of DRO.

Soil chloride concentrations appear to be within a typical range for Red Bluff Draw in the tank #1 and #2 vicinity. However, relatively low but detectable concentrations of DRO were identified in the soil column down-gradient of tank #2 and near the draw channel.

5.2.4 Steel Tank #3

One of the three displaced COG Operating steel oil tanks came to rest approximately 1.4mi downstream from the well pad within the floodplain, but south of the deeper channel. Minor oil staining was observed at the tank site. According to Concho representatives the removal crew was unable to plug the tank openings and the remaining tank contents, which likely consisted of a mixture of flood water and petroleum products, were released into the draw channel during removal. This release occurred near the intersection of the draw channel and a nearby pipeline right-of-way.

One soil sample was collected directly up-gradient of the tank #3 site and one down-gradient (Soil 12 and Soil 11 respectively). Chlorides were relatively low through the soil column at both locations ranging from less than 7.5 mg/kg to 38 mg/kg. DRO were not detected at either sample location. A third soil sample (Soil 10) was collected within the channel bottom near the location where the tank's contents were drained during removal activities. Chloride concentrations ranged from 10 mg/kg to 40 mg/kg and DRO were not detected.

5.2.5 West of Bermed Area

A surface water, sediment and soil sample (SW 4, Sed 4 and Soil 21) were collected within the channel bottom west (up-stream) of where the Yates release entered into the draw. The reported chloride concentration in surface water was 670 mg/l and no DRO was detected. Chloride concentration in the sediment sample was 440 mg/kg and DRO was 15 mg/kg. Chloride concentrations in the soil column ranged from 1,500 mg/kg to 3,300 mg/kg and DRO was not detected.

Elevated chloride concentrations were present within the soils at this location. It is unclear why chlorides were elevated, but it may simply reflect the heterogeneity of the underlying Rustler Formation which can contain salt deposits. Detectable concentration of DRO were identified in the channel sediments which suggests deposition of petroleum products from an up-gradient location.



5.2.6 Upland Release Area

This sample area consists of the vicinity of the Yates release that occurred within an upland area south of the draw. An earthen berm has been constructed north of the release area along the south bank of the channel in an attempt to isolate the upland release area. Patches of a white crust were visible on the soil surface throughout the release area. According to a Yates representative, soil that was visibly contaminated with petroleum products was excavated and disposed of off-site. Several small open pits used for Yates sample collection were present at the time of sampling.

Two soil samples (Soil 22 and Soil 23) were collected in this area and displayed a chloride concentration between less than 7.5 mg/kg and 460 mg/kg. No DRO were detected in either sample location.

5.2.7 Bermed Channel Area

The bermed area includes the portion of the channel bottom that contains the largest visible petroleum deposits between the Yates release site and the Highway 285 bridge. The earthen berm is connected to the northern channel bank, surrounds impacted sites and diverts channel surface flows toward an excavated canal. Recently disturbed areas are present on both sides of this section of the draw. It appears that erosion of these areas has resulted in the deposition of significant quantities of sediment within this section of the draw.

A surface water sample, sediment sample and soil sample (SW 6 and Sed 6 and Soil 20) were collected from within the bermed area and a surface water and sediment sample were collected in the canal to the south of the berm (SW 5, Sed 5). Within the bermed area the reported chloride concentration was 1,800 mg/l and DRO were 1.2 mg/l in surface water. Chloride concentration in the sediment sample was 350 mg/kg and DRO were 210 mg/kg. Chloride concentrations in the soil column ranged from 95 mg/kg to 2,600 mg/kg and DRO were not detected.

Reported chloride concentration in surface water from the canal was 1,100 mg/l and no DRO were detected. Chloride concentration in the sediment sample from the canal was 220 mg/kg and DRO were not detected.

Chloride concentrations were similar in all media sampled to the reference area and other samples collected within the channel of Red Bluff Draw. The surface water sample and sediment sample results from within the bermed area confirm visual observations and indicate the presence of petroleum products. DRO were not detected in the canal to the south of the berm in surface water or sediments.

5.2.8 East of Highway 285 Bridge Release Area

Below the bridge, significant petroleum product deposits were concentrated within the channel-proper and scattered throughout the braided channels. Visible petroleum product staining and deposits continue downstream to a sizable expanse of open water 0.5 miles east of the Highway 285 bridge on the Cooksey Ranch, including minor staining and deposits on the northern extremity of the pool. No significant petroleum deposition was observed in the channel east of the large pool nor in the upland floodplain.



A water sample was collected from the open water 0.5 miles east of the bridge (SW 7) and at a second location an additional 1.75 miles downstream, above the confluence of Red Bluff Draw and the Pecos River (SW 8). Chloride concentrations were 1,100 mg/l and 2,300 mg/l respectively.

Three sediment samples (Sed 7 – Sed 9) were collected between the Highway 285 bridge and the large open stretch of water. Chloride concentrations ranged from 170 mg/kg to 380 mg/kg. DRO in Sed 8 was 53 mg/kg and 78 mg/kg in Sed 9. No DRO was detected in Sed 7.

Chloride concentration results from the six soil sample locations (Soil 24 – Soil 29) between the Highway 285 bridge and the large open stretch of water ranged from 58 mg/kg to 310 mg/kg. No DRO was detected.

Significant observed petroleum products deposits and detectable DRO in sediments confirm the presence of hydrocarbon contamination within this stretch of the draw. Soil sample results appear to indicate a limited downward migration of hydrocarbons in the soil profile. A lack of DRO in the surface water suggests a limited mobility of the petroleum products at the time of sample collection.

6 CONCLUSIONS

The reference area displayed elevated concentrations of chlorides in surface water, sediments and soils. These conditions may reflect naturally occurring salt deposits in the local geologic formations. No DRO were detected in sample media and no surface deposits of petroleum products were observed, lending some evidence that the conditions are natural and not the result of a previous release of contaminated material.

Soil sampling indicates that the COG Operating LLC Crossman 25 State #1H well pad material contains elevated concentrations of chloride and DRO. The composited surface soil sample from the pad reported 5,500 mg/kg chloride and 1,200 mg/kg DRO. Chloride concentrations were elevated at nearly all of the samples intervals within the pad. Additionally, the pad displays signs of ongoing erosion and will likely act as a source of continued sedimentation and possible DRO contamination within downstream reaches of the draw. Surface soil samples collected immediately down-gradient of the pad reported detectable concentrations of DRO which may reflect the initial release or subsequent erosion of the pad.

Widely spaced and spotty petroleum staining, which were mostly confined to vegetation, was observed throughout the tank sampling areas. DRO were detected in soils down-gradient of tank 2 and near the channel in the vicinity of the tanks. Additionally, DRO were detected in sediments approximately 0.3 miles west of the Highway 285 bridge (Sed 4). It appears that petroleum contamination in the stretch of the draw between the COG well pad to approximately 0.3 mi west of the Highway 285 bridge is widespread but not concentrated in any identified locations. Chloride concentration is this stretch are elevated at some locations but the origins are likely natural.

Significant petroleum product deposits were observed on vegetation and surface soils in the bermed area immediately upstream (west) the Highway 285 bridge and for 0.5 miles east of the bridge. Reported DRO concentrations ranged from 53 mg/kg to 210 mg/kg in three sediment



GL Environmental, Inc. 15 July 15, 2015

samples collected in this area. No DRO was detected in soil samples which indicates that widespread infiltration of petroleum products has not occurred in the draw, rather remaining petroleum products have been isolated in vegetation, patches of soil and in the organic sediments of the deeper sections of the channel. No DRO was detected in the surface water suggesting a limited mobility of the petroleum products at the time of sample collection.

Soil samples results indicate that petroleum products are mostly confined to the surface with limited downward migration. Additionally, low permeability gypsiferous material that underlie the draw channel likely act as a barrier to the downward migration of contaminated material into regional groundwater formations. However, due to the soluble nature of the underlying Rustler Formation the presence of karst hydrology and a direct connection of surface / shallow groundwater to deeper groundwater cannot be eliminated.

In general, silt and fine sand sediments increase in depth within the channel in the downstream direction of the draw. Siltstone, evaporites and dolomite pebbles / cobbles mixed with sand occur on the channel surface in the reference area. This material could be identified in most soil samples within the draw channel, except it was buried by a layer of silt and sand that increased in thickness in the downstream direction. The observed sedimentation may have numerous causes related natural sedimentation patterns and recent flood events. However, it seems likely that recent oil and gas development including roads and drill/well pads in combination with a lack of storm water controls may be accelerating the sedimentation rate within the draw. For example, storm water runoff from the well location immediately adjacent to the Red Bluff Draw just north of the Yates pipeline release site, was observed conveying sediment directly into the draw during a moderate precipitation event. Also, the COG Crossman 25 State #1H well pad, has several other facilities in close proximity to the draw that do not appear to have adequate storm water runoff protection. It is recommended that a review of compliance with the storm water regulations be conducted on NM SLO lands, and Storm Water Pollution Prevention Plans (SWPPP's) be implemented.

Finally, the New Mexico Oil Conservation Division (OCD) uses a target of 1,000 mg/kg for remediation of chlorides and between a 100 mg/kg and 1,000 mg/kg concentration target for remediation of petroleum hydrocarbons. The COG Operating LLC Crossman 25 State #1H pad material continues to erode within the draw, displays an elevated concentration of chloride over the surrounding environment and DRO of 1,200 mg/kg in surface soils. Based on these finding the pad area should be targeted for remediation. The roughly 0.8 mile stretch of the draw that begins at bermed area west of the Highway 285 bridge and ends within the large stretch of open water 0.5 miles east of the bridge contains significant petroleum product deposits in vegetation and on surface soils. Souder Miller & Associates collected and analyzed petroleum samples as part of their Assessment of the Use of Prescribed Fire as a Mitigation of Hydrocarbon Affected Vegetation in and Around Red Bluff Draw, 2015 and reported DRO concentrations ranged from 120,000 mg/kg to 150,000 mg/kg. Samples of sediment within pools of open water were reported to contain up to 210 mg/kg DRO. This 0.8 mile stretch of the draw should also be targeted for remediation.

7 REFERENCES

- COG Operating LLC. 2014. New Mexico Oil Conservation Division Form C-141 Crossman 25 State #1H. Received 10/20/14
- Mewbourne Oil Company. 2014. New Mexico Oil Conservation Division Form C-141 San Lorenzo SWD #001. Received 10/06/14
- New Mexico Office of the State Engineer (NMOSE). *New Mexico Water Rights Reporting System (NMWRRS)*. http://nmwrrs.ose.state.nm.us/nmwrrs/index.html Accessed June 2, 2015.
- Souder Miller & Associates. 2015. Assessment of the Use of Prescribed Fire as a Mitigation of Hydrocarbon Affected Vegetation in and Around Red Bluff Draw. 201 S. Halagueno Carlsbad, NM 88221.
- USDA NRCS. *The Web Soil Survey*. http://websoilsurvey.nrcs.usda.gov/app/WebSoilSurvey.aspx Accessed June 2, 2015.
- USGS. 2003. *Geologic Map of New Mexico*. New Mexico Bureau of Geology and Mineral Resources 801 Leroy Pl, Socorro NM, 87801.
- Yates Petroleum Corporation. 2014. New Mexico Oil Conservation Division Form C-141 Cigarillo SWD System. Received 11/04/14

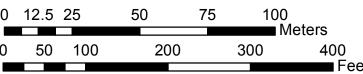


Appendix 1 - Maps



Red Bluff Draw - Map 1 Reference Sample Area



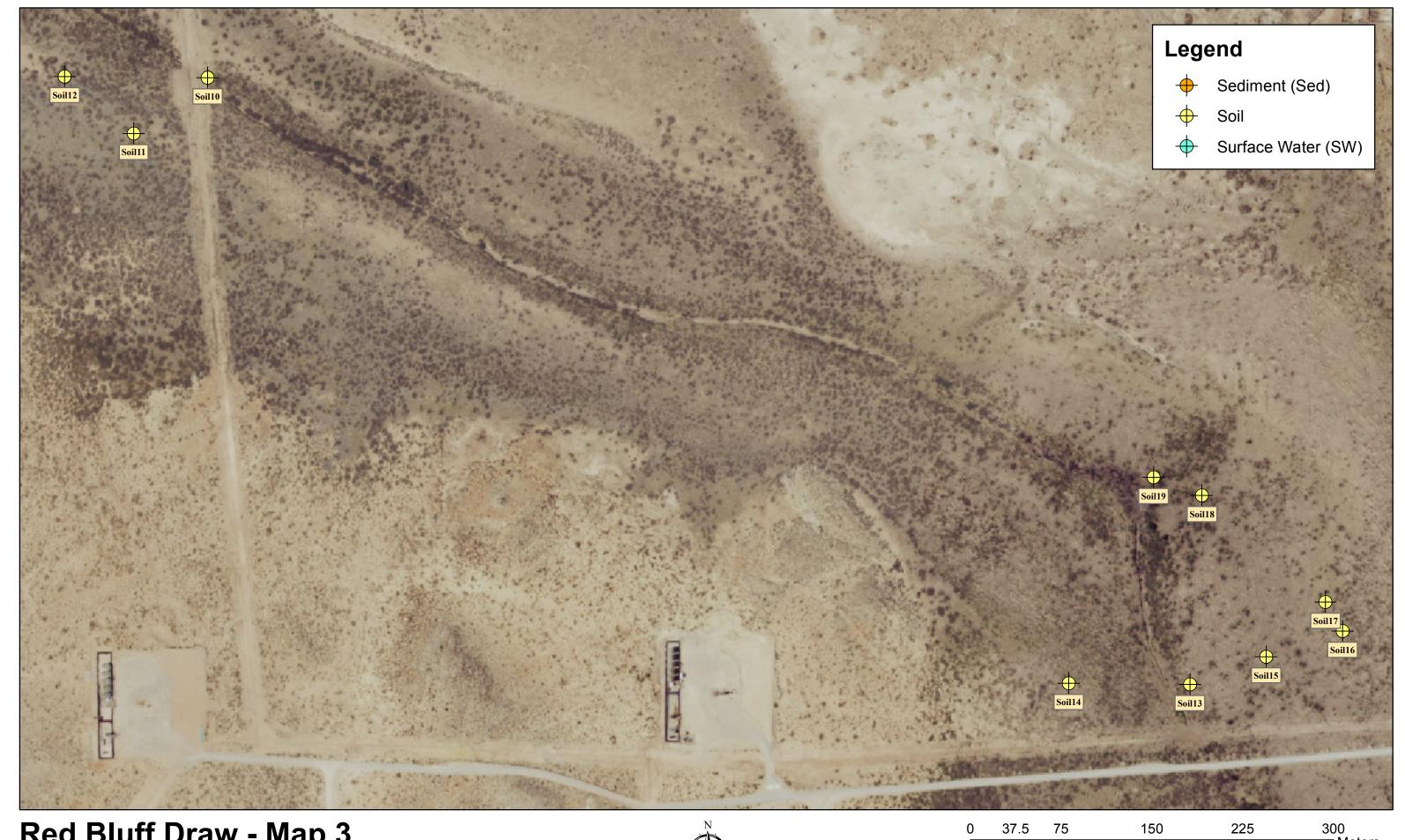




Red Bluff Draw - Map 2 COG Operating Pad Sample Area



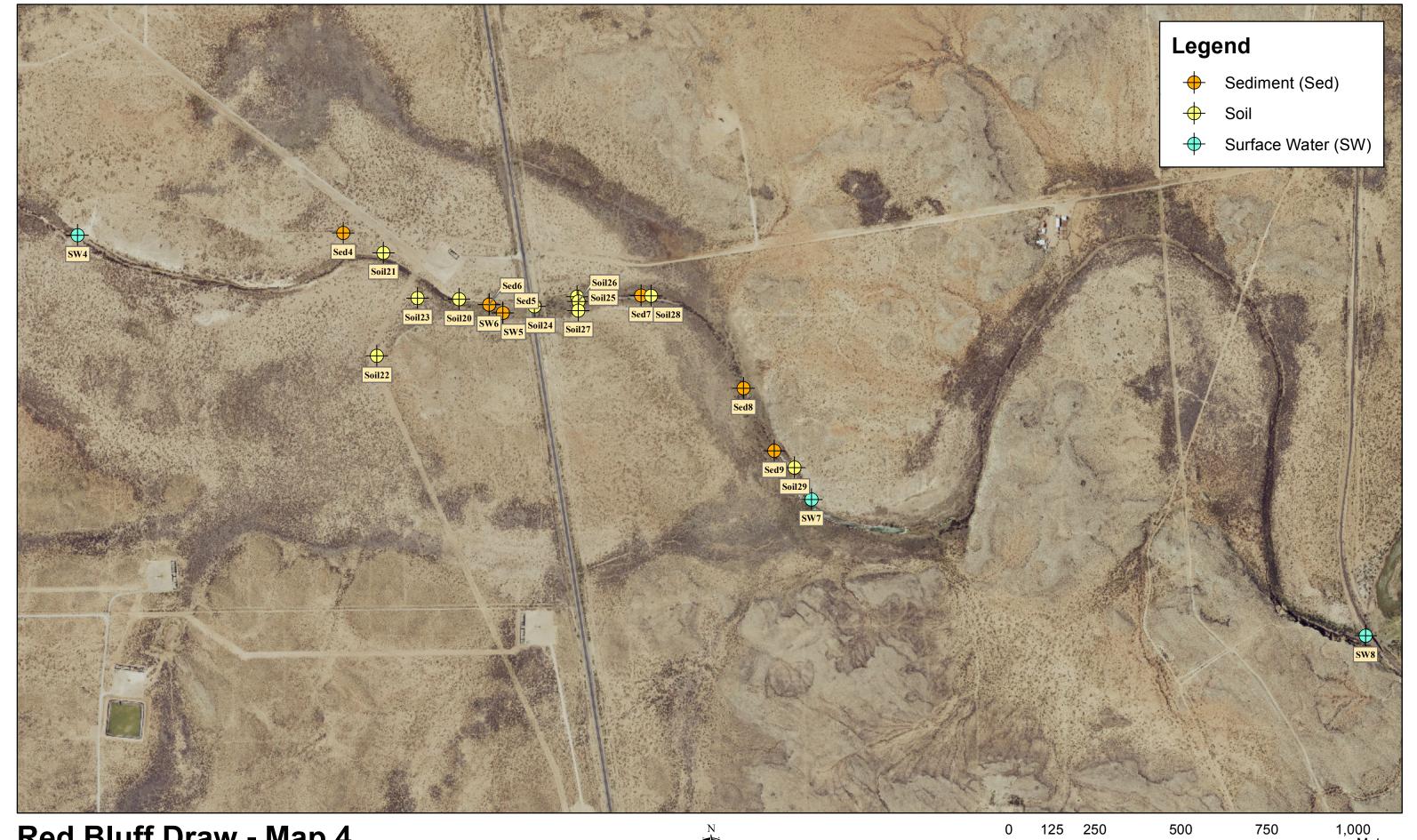




Red Bluff Draw - Map 3 Tanks Sample Area





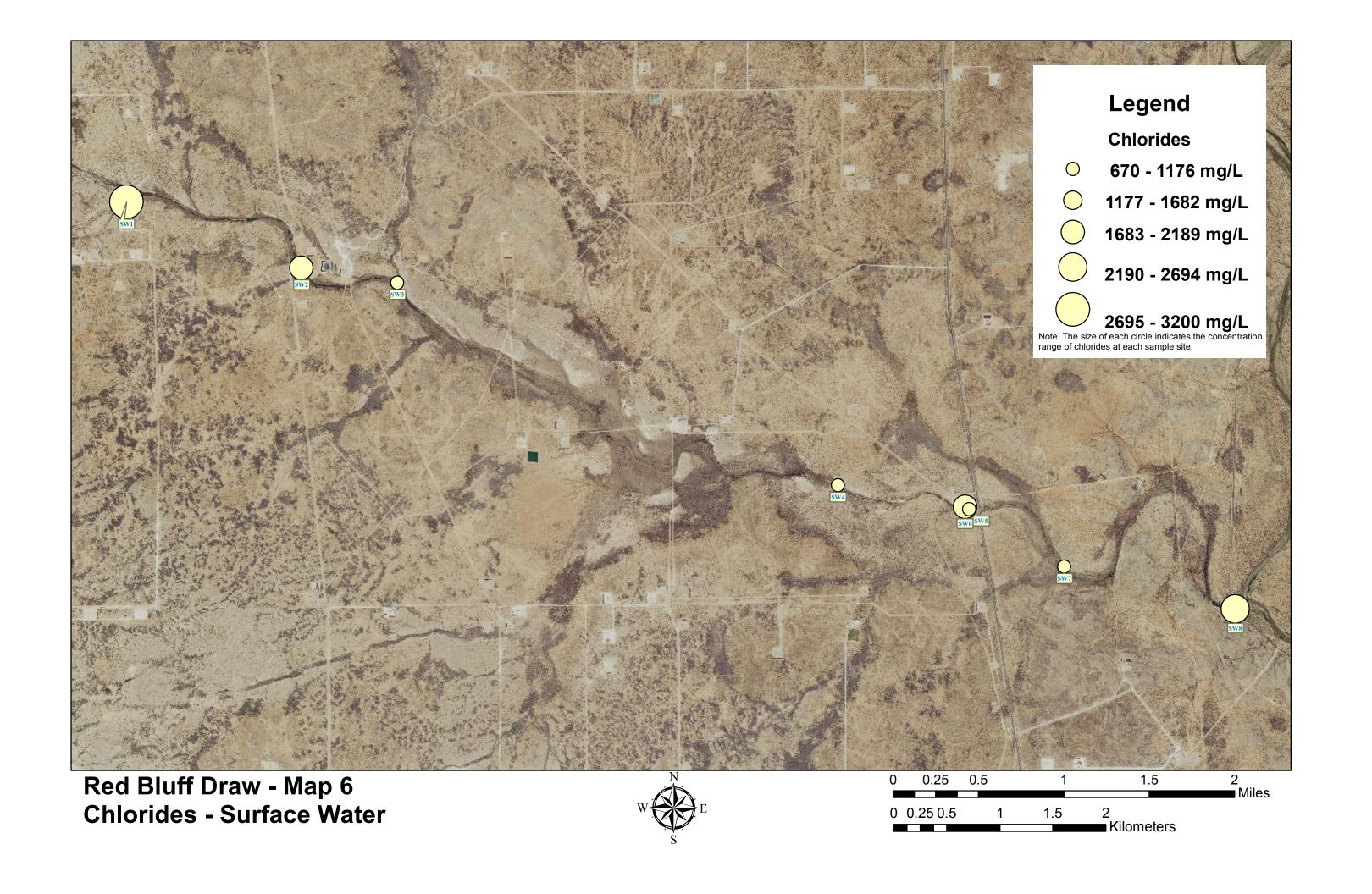


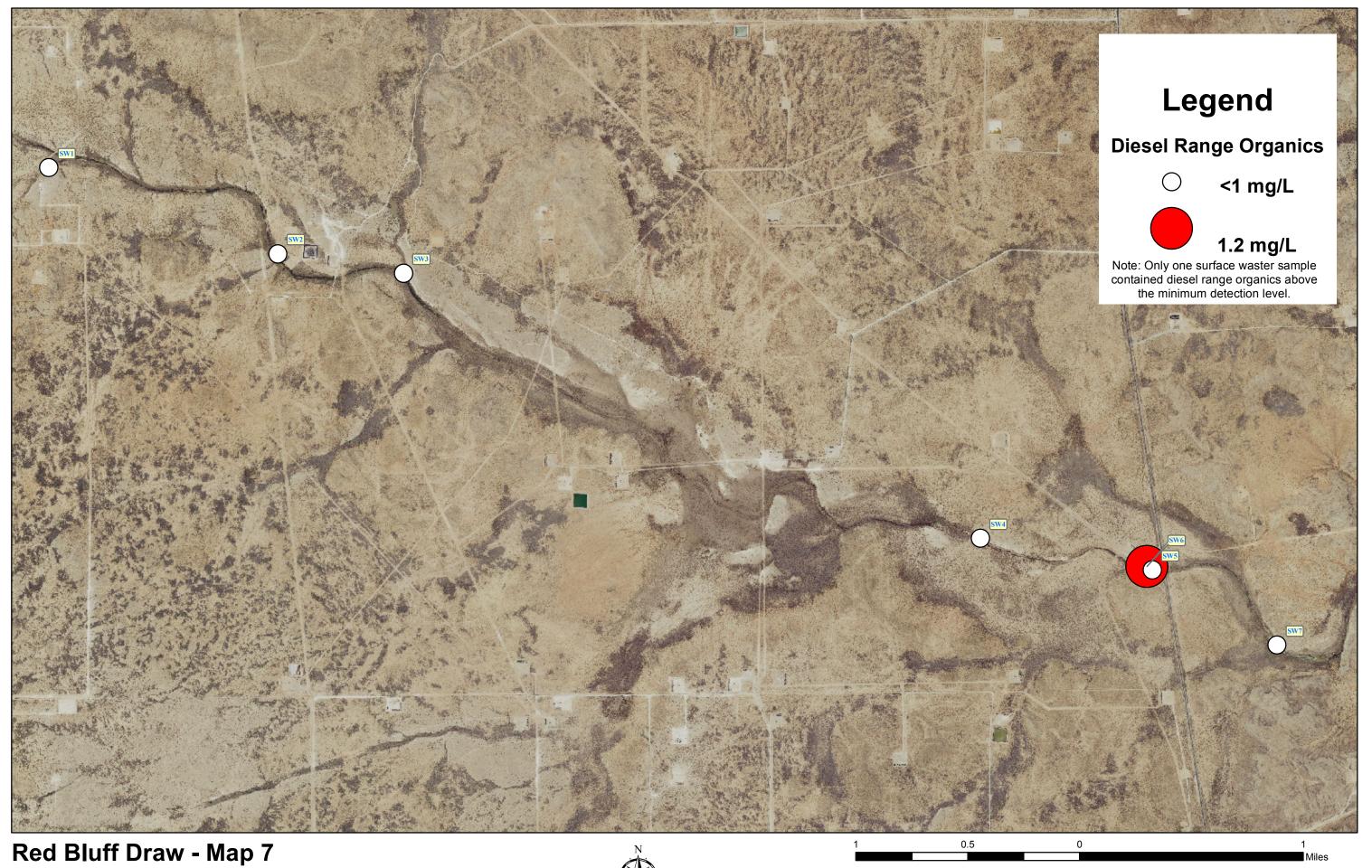
Red Bluff Draw - Map 4 Highway 285 Bridge Sample Area



0	125	250	500	750	1,000 Meters
0	375	750	1,500	2,250	3,000 Feet

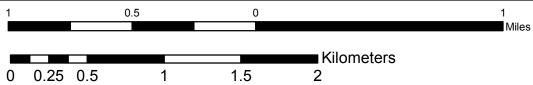


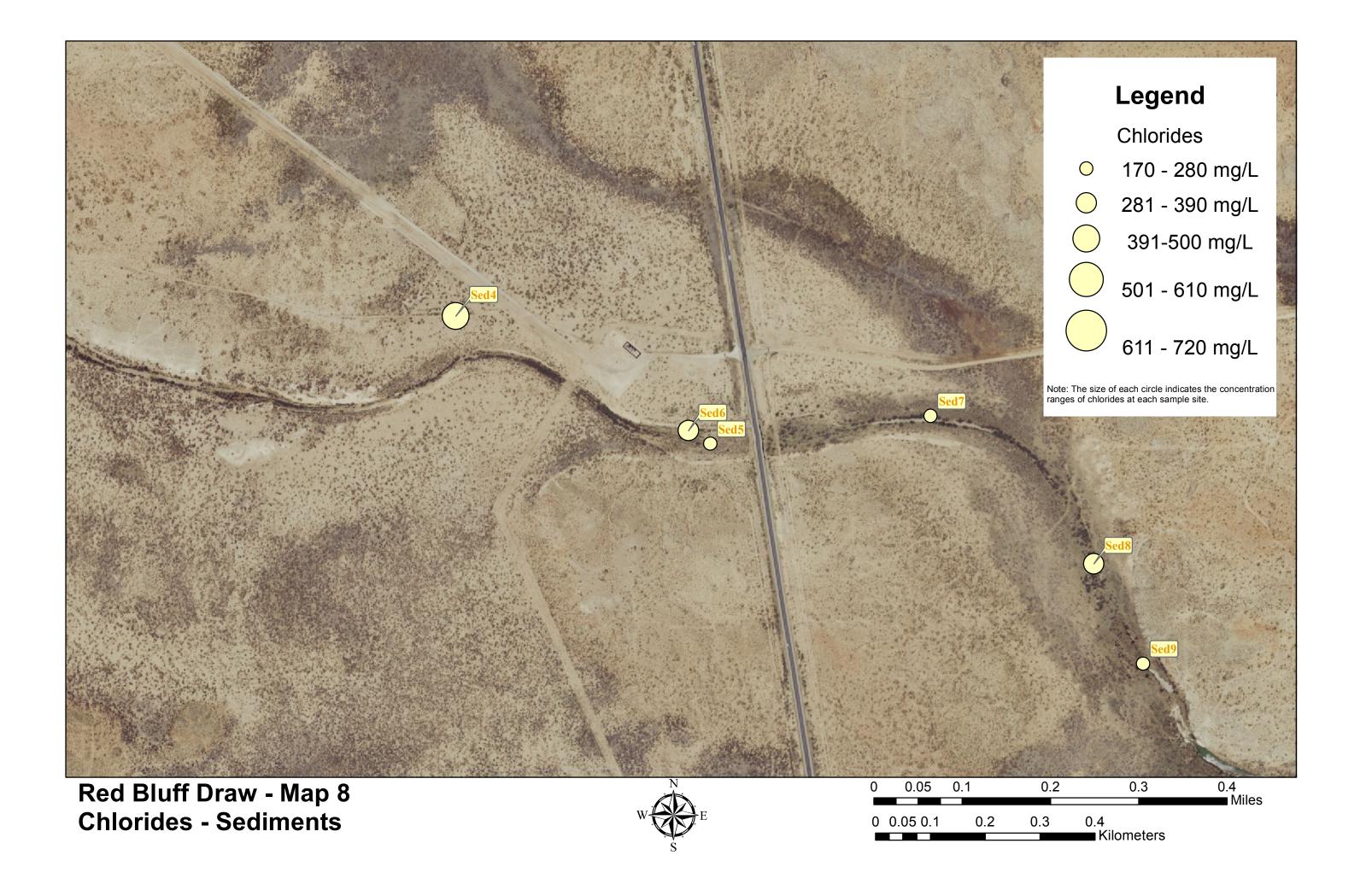


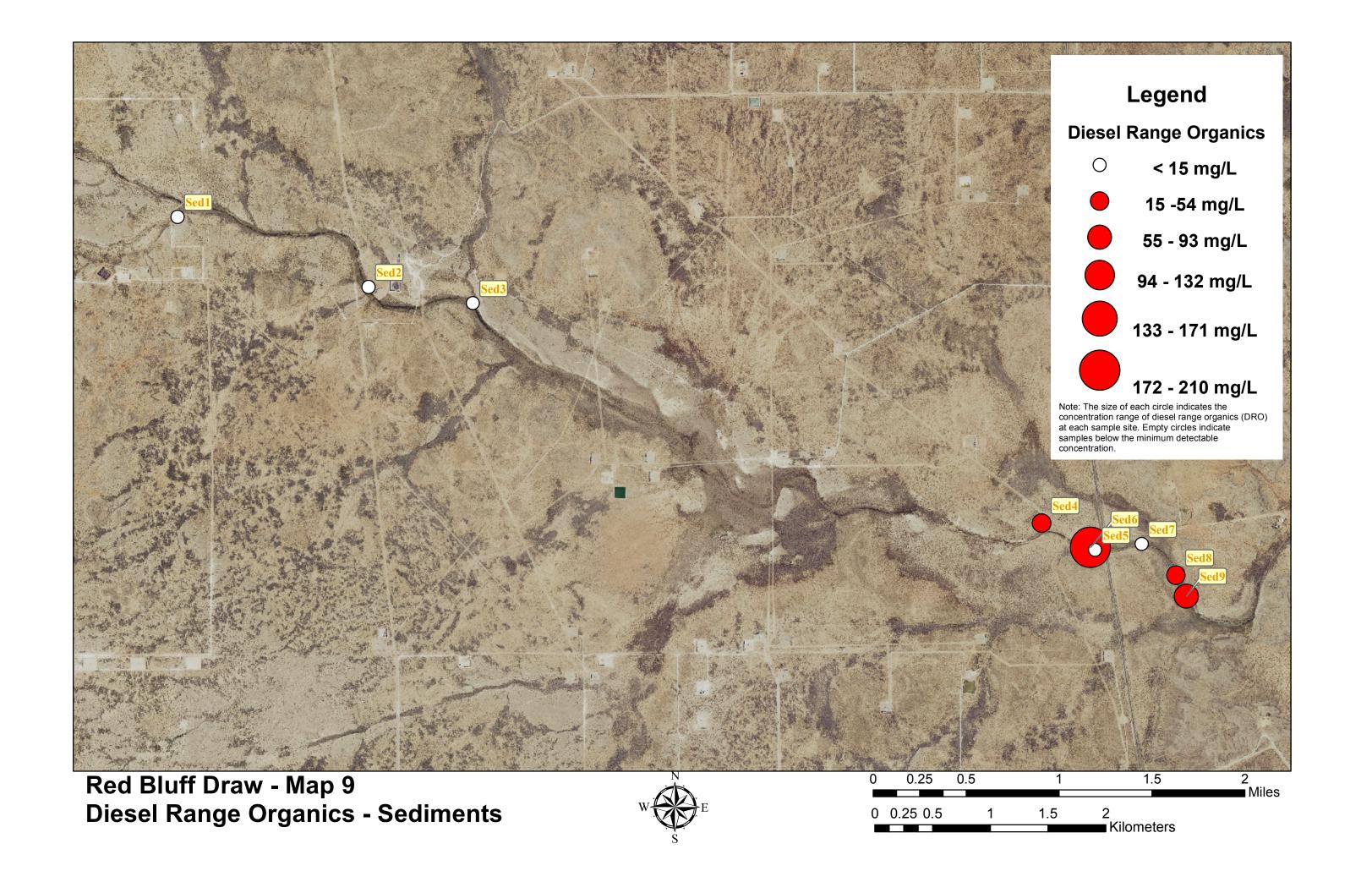


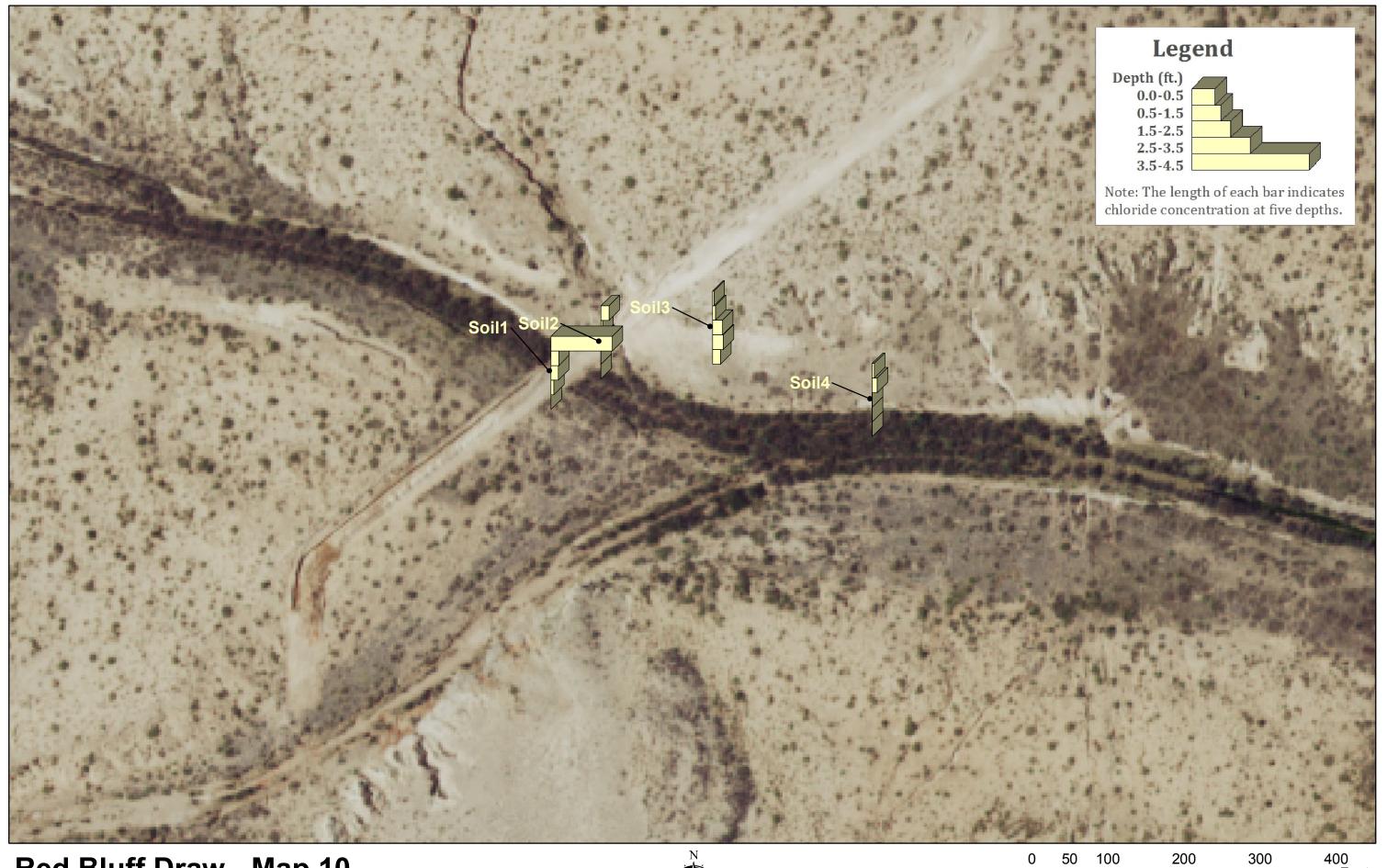
Red Bluff Draw - Map 7
Diesel Range Organics - Surface Water







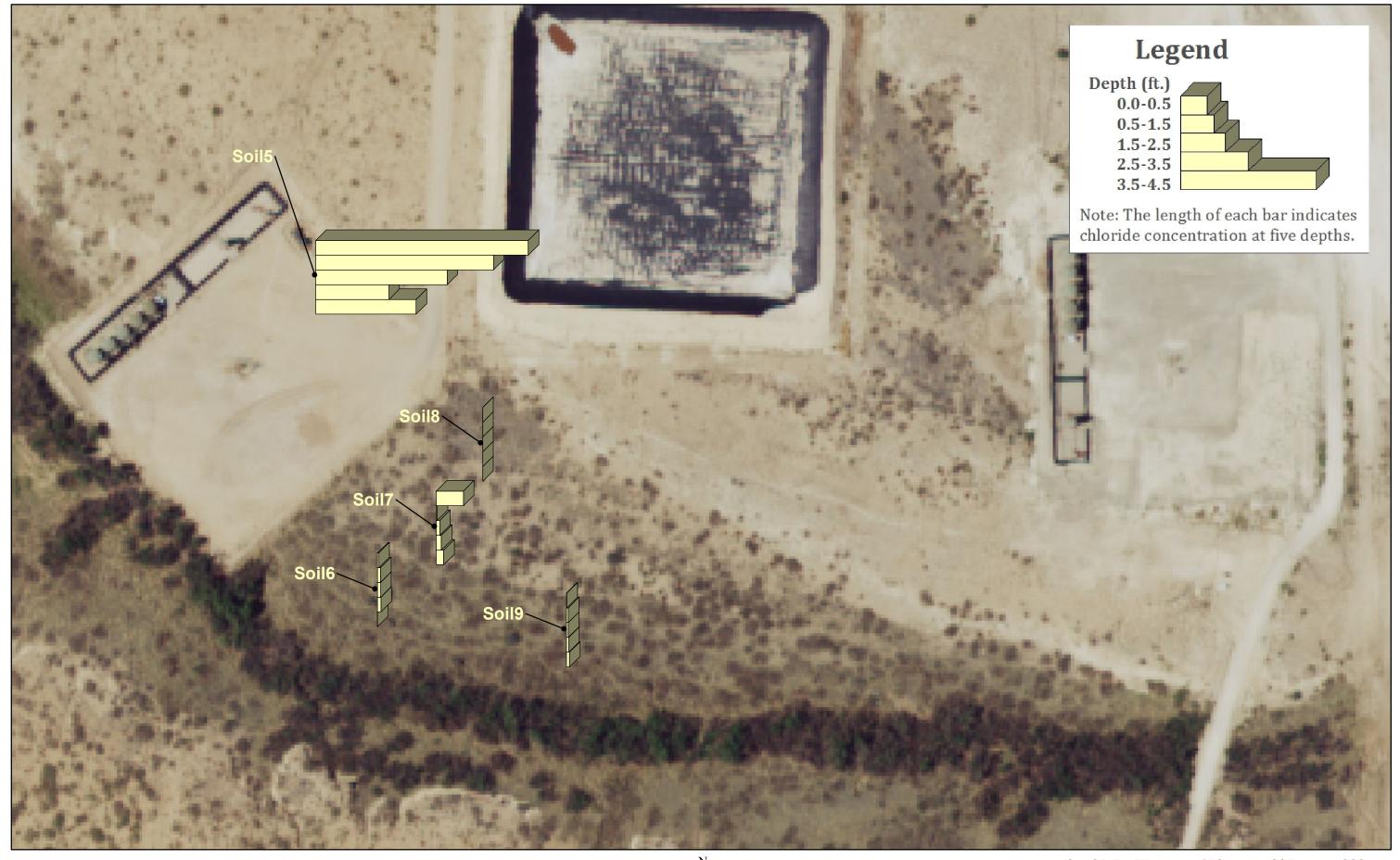




Red Bluff Draw - Map 10 Soil Chlorides - Reference Sample Area







Red Bluff Draw - Map 11 Soil Chlorides - COG Operating Pad Area



0_	37.5	75	150	22	25	300 Feet
0	10	20	40	60	80	



Red Bluff Draw - Map 12 Soil Chlorides - Tank Locations



125	250	500	750	1,000
37.5	75	150	225	Feet 300 Meters



Red Bluff Draw - Map 13 Soil Chlorides - Highway 285 Bridge Sample Area



125	250	500	750	1,000
				Feet
37.5	75	150	225	300
				Meters



Red Bluff Draw - Map 14 Diesel Range Organics - COG Operating Pad Area



0	40	80	160	240	320
0	12.5	25	50	75	Feet 100
					Meters



Red Bluff Draw - Map 15 Diesel Range Organics - Tanks Location



100 200	40	0	600	800
25 50	100	150	200	Feet
			Me	eters



Red Bluff Draw - Map 16 Diesel Range Organics - Highway 285 Bridge Sample Area



)	125	250	500	750	1,000
)	37.5	75	150	225	Feet 300
			100		Meters

Appendix 2 Photos



Photo 1. Reference area, Soil 1 location



Photo 2. Reference area, Soil 1 location



Photo 3. Reference area, Soil 2 location



Photo 4. Reference area, Soil 2 location



Photo 5. Reference area, Soil 3 location



Photo 6. Reference area, Soil 3 location



Photo 7. Example of plugged hole



Photo 8. Example of attempted burn area



Photo 9. COG Operating LLC Crossman 25 State #1H well pad



Photo 10. COG Operating LLC Crossman 25 State #1H well pad



Photo 11. COG Operating LLC Crossman 25 State #1H well pad



Photo 12. Soil cross-section location east of COG well pad



Photo 13. Soil 6 location



Photo 14. Soil 10 location



Photo 15. Soil 11 location



Photo 16. Soil 19 location



Photo 17. Soil 22 location



Photo 18. Soil 23 location



Photo 19. Soil 25 location



Photo 20. Soil 26 location



Photo 21. Soil 28 location



Photo 22. Soil 29 location



Photo 23. Surface water 8 location



Photo 24. Bermed area in channel



Photo 25. Bermed area in channel and canal



Photo 26. Petroleum deposits in bermed area



Photo 27. Example of typical petroleum deposit in braided channel



Photo 28. Petroleum staining in upland area near tank sampling locations

Appendix 3 Laboratory Data Sheet



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 04, 2015

Matt Lane
GL Environmental Inc
PO Box 1746

Las Vegas, NM 87701 TEL: (505) 454-0830

FAX

RE: Red Bluff Draw OrderNo.: 1505B92

Dear Matt Lane:

Hall Environmental Analysis Laboratory received 17 sample(s) on 5/28/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/4/2015

CLIENT: GL Environmental Inc Client Sample ID: SWI (REF)

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 9:10:00 AM

 Lab ID:
 1505B92-001
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analysi	:: LGT
Chloride	3200	250	* mg/L	500 6/2/2015 11:28:02 PM	R26575
EPA METHOD 8015D: DIESEL RANGE				Analyst	: KJH
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 6/2/2015 10:34:41 AM	19455
Surr: DNOP	107	76.5-150	%REC	1 6/2/2015 10:34:41 AM	19455
EPA METHOD 8015D: GASOLINE RAM	IGE			Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 6/1/2015 11:41:30 AM	R26543
Surr: BFB	76.6	57.8-137	%REC	1 6/1/2015 11:41:30 AM	R26543
EPA METHOD 8021B: VOLATILES				Analyst	:: NSB
Benzene	ND	1.0	μg/L	1 5/29/2015 11:56:58 AM	R26505
Toluene	ND	1.0	μg/L	1 5/29/2015 11:56:58 AM	R26505
Ethylbenzene	ND	1.0	μg/L	1 5/29/2015 11:56:58 AM	R26505
Xylenes, Total	ND	2.0	μg/L	1 5/29/2015 11:56:58 AM	R26505
Surr: 4-Bromofluorobenzene	98.6	80-120	%REC	1 5/29/2015 11:56:58 AM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 26

- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED I (REF)

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 9:10:00 AM

 Lab ID:
 1505B92-002
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	720	30	mg/Kg	20	6/1/2015 8:02:01 PM	19495
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 1:35:46 AM	19454
Surr: DNOP	98.6	57.9-140	%REC	1	5/31/2015 1:35:46 AM	19454
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2015 10:27:46 AM	Л 19456
Surr: BFB	87.6	75.4-113	%REC	1	5/30/2015 10:27:46 AM	Л 19456
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 10:27:46 AM	И 19456
Toluene	ND	0.048	mg/Kg	1	5/30/2015 10:27:46 AM	<i>I</i> 19456
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 10:27:46 AM	<i>I</i> 19456
Xylenes, Total	ND	0.096	mg/Kg	1	5/30/2015 10:27:46 AM	<i>I</i> 19456
Surr: 4-Bromofluorobenzene	91.9	80-120	%REC	1	5/30/2015 10:27:46 AM	Л 19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505B92**Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 2 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 10:15:00 AM

 Lab ID:
 1505B92-003
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Ç	Qual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: LGT
Chloride	1800	100	* mg/L	200 6/2/2015 11:40:27 PM	R26575
EPA METHOD 8015D: DIESEL RANGE				Analyst	: KJH
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 6/2/2015 11:28:26 AM	19455
Surr: DNOP	110	76.5-150	%REC	1 6/2/2015 11:28:26 AM	19455
EPA METHOD 8015D: GASOLINE RAN	GE			Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 6/1/2015 12:06:37 PM	R26543
Surr: BFB	84.2	57.8-137	%REC	1 6/1/2015 12:06:37 PM	R26543
EPA METHOD 8021B: VOLATILES				Analyst	: NSB
Benzene	ND	1.0	μg/L	1 5/29/2015 12:22:20 PM	R26505
Toluene	ND	1.0	μg/L	1 5/29/2015 12:22:20 PM	R26505
Ethylbenzene	ND	1.0	μg/L	1 5/29/2015 12:22:20 PM	R26505
Xylenes, Total	ND	2.0	μg/L	1 5/29/2015 12:22:20 PM	R26505
Surr: 4-Bromofluorobenzene	106	80-120	%REC	1 5/29/2015 12:22:20 PM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 26

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505B92**Date Reported: **6/4/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 2 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 10:15:00 AM

 Lab ID:
 1505B92-004
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	410	30	mg/Kg	20	6/1/2015 8:14:26 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 3:00:57 AM	19454
Surr: DNOP	95.4	57.9-140	%REC	1	5/31/2015 3:00:57 AM	19454
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2015 11:54:11 AM	19456
Surr: BFB	89.0	75.4-113	%REC	1	5/30/2015 11:54:11 AM	19456
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2015 11:54:11 AM	19456
Toluene	ND	0.049	mg/Kg	1	5/30/2015 11:54:11 AM	19456
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2015 11:54:11 AM	19456
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2015 11:54:11 AM	19456
Surr: 4-Bromofluorobenzene	96.5	80-120	%REC	1	5/30/2015 11:54:11 AM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505B92**Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 3 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 11:10:00 AM

 Lab ID:
 1505B92-005
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL (Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	760	25	*	mg/L	50 6/2/2015 11:52:51 PM R26575
EPA METHOD 8015D: DIESEL RANGE					Analyst: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 6/2/2015 11:55:30 AM 19455
Surr: DNOP	109	76.5-150		%REC	1 6/2/2015 11:55:30 AM 19455
EPA METHOD 8015D: GASOLINE RANG	E				Analyst: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 6/1/2015 1:47:15 PM R26543
Surr: BFB	78.4	57.8-137		%REC	1 6/1/2015 1:47:15 PM R26543
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0		μg/L	1 5/29/2015 2:02:57 PM R26505
Toluene	ND	1.0		μg/L	1 5/29/2015 2:02:57 PM R26505
Ethylbenzene	ND	1.0		μg/L	1 5/29/2015 2:02:57 PM R26505
Xylenes, Total	ND	2.0		μg/L	1 5/29/2015 2:02:57 PM R26505
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1 5/29/2015 2:02:57 PM R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505B92**Date Reported: **6/4/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 3 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 11:10:00 AM

 Lab ID:
 1505B92-006
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	240	30	mg/Kg	20	6/1/2015 8:26:51 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/31/2015 3:22:14 AM	19454
Surr: DNOP	101	57.9-140	%REC	1	5/31/2015 3:22:14 AM	19454
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 12:16:32 PM	19456
Surr: BFB	91.2	75.4-113	%REC	1	6/1/2015 12:16:32 PM	19456
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.049	mg/Kg	1	6/1/2015 12:16:32 PM	19456
Toluene	ND	0.049	mg/Kg	1	6/1/2015 12:16:32 PM	19456
Ethylbenzene	ND	0.049	mg/Kg	1	6/1/2015 12:16:32 PM	19456
Xylenes, Total	ND	0.099	mg/Kg	1	6/1/2015 12:16:32 PM	19456
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/1/2015 12:16:32 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505B92 Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 4 RBD

Project: Red Bluff Draw **Collection Date:** 5/26/2015 12:35:00 PM 1505B92-007 Matrix: AQUEOUS Lab ID: **Received Date:** 5/28/2015 9:05:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	:: LGT
Chloride	670	25	*	mg/L	50	6/3/2015 12:05:16 AM	R26575
EPA METHOD 8015D: DIESEL RANGE						Analyst	: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1	6/2/2015 12:22:28 PM	19455
Surr: DNOP	111	76.5-150		%REC	1	6/2/2015 12:22:28 PM	19455
EPA METHOD 8015D: GASOLINE RANG	iΕ					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1	6/1/2015 11:16:23 AM	R26543
Surr: BFB	77.7	57.8-137		%REC	1	6/1/2015 11:16:23 AM	R26543
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	1.0		μg/L	1	5/29/2015 11:31:53 AM	R26505
Toluene	ND	1.0		μg/L	1	5/29/2015 11:31:53 AM	R26505
Ethylbenzene	ND	1.0		μg/L	1	5/29/2015 11:31:53 AM	R26505
Xylenes, Total	ND	2.0		μg/L	1	5/29/2015 11:31:53 AM	R26505
Surr: 4-Bromofluorobenzene	92.9	80-120		%REC	1	5/29/2015 11:31:53 AM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range Reporting Detection Limit

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Lab Order **1505B92**Date Reported: **6/4/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 4 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 12:35:00 PM

 Lab ID:
 1505B92-008
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	440	30	mg/Kg	20	6/1/2015 8:39:16 PM	19495
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	15	9.8	mg/Kg	1	6/2/2015 1:18:14 PM	19454
Surr: DNOP	125	57.9-140	%REC	1	6/2/2015 1:18:14 PM	19454
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 12:45:20 PM	19456
Surr: BFB	91.7	75.4-113	%REC	1	6/1/2015 12:45:20 PM	19456
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/1/2015 12:45:20 PM	19456
Toluene	ND	0.049	mg/Kg	1	6/1/2015 12:45:20 PM	19456
Ethylbenzene	ND	0.049	mg/Kg	1	6/1/2015 12:45:20 PM	19456
Xylenes, Total	ND	0.097	mg/Kg	1	6/1/2015 12:45:20 PM	19456
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/1/2015 12:45:20 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 5 RBD

Project: Red Bluff Draw **Collection Date:** 5/26/2015 1:35:00 PM Matrix: AQUEOUS Lab ID: 1505B92-009 **Received Date:** 5/28/2015 9:05:00 AM

Analyses	Result	RL Qı	ıal Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	:: LGT
Chloride	1100	50	* mg/L	100 6/3/2015 12:17:40 AM	R26575
EPA METHOD 8015D: DIESEL RANGE				Analyst	:: KJH
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 6/2/2015 12:49:16 PM	19455
Surr: DNOP	109	76.5-150	%REC	1 6/2/2015 12:49:16 PM	19455
EPA METHOD 8015D: GASOLINE RANG	Ε			Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 6/1/2015 2:12:38 PM	R26543
Surr: BFB	79.0	57.8-137	%REC	1 6/1/2015 2:12:38 PM	R26543
EPA METHOD 8021B: VOLATILES				Analyst	:: NSB
Benzene	ND	1.0	μg/L	1 5/29/2015 2:28:22 PM	R26505
Toluene	ND	1.0	μg/L	1 5/29/2015 2:28:22 PM	R26505
Ethylbenzene	ND	1.0	μg/L	1 5/29/2015 2:28:22 PM	R26505
Xylenes, Total	ND	2.0	μg/L	1 5/29/2015 2:28:22 PM	R26505
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1 5/29/2015 2:28:22 PM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505B92**Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 5 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 1:35:00 PM

 Lab ID:
 1505B92-010
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	220	30	mg/Kg	20	6/1/2015 8:51:41 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	5/31/2015 4:04:47 AM	19454
Surr: DNOP	94.1	57.9-140	%REC	1	5/31/2015 4:04:47 AM	19454
EPA METHOD 8015D: GASOLINE RAN	IGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2015 2:18:00 PM	19456
Surr: BFB	88.0	75.4-113	%REC	1	5/30/2015 2:18:00 PM	19456
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 2:18:00 PM	19456
Toluene	ND	0.047	mg/Kg	1	5/30/2015 2:18:00 PM	19456
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 2:18:00 PM	19456
Xylenes, Total	ND	0.095	mg/Kg	1	5/30/2015 2:18:00 PM	19456
Surr: 4-Bromofluorobenzene	93.0	80-120	%REC	1	5/30/2015 2:18:00 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505B92**Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 6 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 1:55:00 PM

 Lab ID:
 1505B92-011
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analyst	: LGT
Chloride	1800	100	* mg/L	200 6/3/2015 12:30:05 AM	R26575
EPA METHOD 8015D: DIESEL RANGE				Analyst	: KJH
Diesel Range Organics (DRO)	1.2	1.0	mg/L	1 6/2/2015 1:16:25 PM	19455
Surr: DNOP	113	76.5-150	%REC	1 6/2/2015 1:16:25 PM	19455
EPA METHOD 8015D: GASOLINE RANG	E			Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 6/1/2015 2:38:09 PM	R26543
Surr: BFB	80.9	57.8-137	%REC	1 6/1/2015 2:38:09 PM	R26543
EPA METHOD 8021B: VOLATILES				Analyst	: NSB
Benzene	ND	1.0	μg/L	1 5/29/2015 2:53:33 PM	R26505
Toluene	ND	1.0	μg/L	1 5/29/2015 2:53:33 PM	R26505
Ethylbenzene	ND	1.0	μg/L	1 5/29/2015 2:53:33 PM	R26505
Xylenes, Total	ND	2.0	μg/L	1 5/29/2015 2:53:33 PM	R26505
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1 5/29/2015 2:53:33 PM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 11 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 6 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 1:55:00 PM

 Lab ID:
 1505B92-012
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	350	30		mg/Kg	20	6/1/2015 9:04:05 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	210	9.7		mg/Kg	1	6/2/2015 1:39:34 PM	19454
Surr: DNOP	179	57.9-140	S	%REC	1	6/2/2015 1:39:34 PM	19454
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/1/2015 1:14:07 PM	19456
Surr: BFB	91.2	75.4-113		%REC	1	6/1/2015 1:14:07 PM	19456
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.047		mg/Kg	1	6/1/2015 1:14:07 PM	19456
Toluene	ND	0.047		mg/Kg	1	6/1/2015 1:14:07 PM	19456
Ethylbenzene	ND	0.047		mg/Kg	1	6/1/2015 1:14:07 PM	19456
Xylenes, Total	ND	0.095		mg/Kg	1	6/1/2015 1:14:07 PM	19456
Surr: 4-Bromofluorobenzene	99.1	80-120		%REC	1	6/1/2015 1:14:07 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Po
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 7 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 3:56:00 PM

 Lab ID:
 1505B92-013
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Q	ual Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analysi	:: LGT
Chloride	1100	50	* mg/L	100 6/3/2015 12:42:30 AM	R26575
EPA METHOD 8015D: DIESEL RANGE				Analyst	: KJH
Diesel Range Organics (DRO)	ND	1.0	mg/L	1 6/2/2015 2:10:11 PM	19455
Surr: DNOP	110	76.5-150	%REC	1 6/2/2015 2:10:11 PM	19455
EPA METHOD 8015D: GASOLINE RAN	IGE			Analyst	: NSB
Gasoline Range Organics (GRO)	ND	0.050	mg/L	1 6/1/2015 3:03:25 PM	R26543
Surr: BFB	77.8	57.8-137	%REC	1 6/1/2015 3:03:25 PM	R26543
EPA METHOD 8021B: VOLATILES				Analyst	:: NSB
Benzene	ND	1.0	μg/L	1 5/29/2015 3:18:36 PM	R26505
Toluene	ND	1.0	μg/L	1 5/29/2015 3:18:36 PM	R26505
Ethylbenzene	ND	1.0	μg/L	1 5/29/2015 3:18:36 PM	R26505
Xylenes, Total	ND	2.0	μg/L	1 5/29/2015 3:18:36 PM	R26505
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1 5/29/2015 3:18:36 PM	R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 7 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 3:30:00 PM

 Lab ID:
 1505B92-014
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	190	30	mg/Kg	20	6/1/2015 9:16:30 PM	19495
EPA METHOD 8015D: DIESEL RANGE				Analys	t: KJH	
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/2/2015 2:00:49 PM	19454
Surr: DNOP	118	57.9-140	%REC	1	6/2/2015 2:00:49 PM	19454
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2015 3:15:34 PM	19456
Surr: BFB	88.8	75.4-113	%REC	1	5/30/2015 3:15:34 PM	19456
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2015 3:15:34 PM	19456
Toluene	ND	0.049	mg/Kg	1	5/30/2015 3:15:34 PM	19456
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2015 3:15:34 PM	19456
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2015 3:15:34 PM	19456
Surr: 4-Bromofluorobenzene	94.6	80-120	%REC	1	5/30/2015 3:15:34 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 14 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505B92 Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 8 RBD

Project: Red Bluff Draw **Collection Date:** 5/26/2015 3:00:00 PM Lab ID: 1505B92-015 **Matrix: SEDIMENT** Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	380	30	mg/Kg	20	6/1/2015 9:28:54 PM	19495
EPA METHOD 8015D: DIESEL RANGE				Analyst	: JME	
Diesel Range Organics (DRO)	53	9.8	mg/Kg	1	5/31/2015 4:26:00 AM	19454
Surr: DNOP	101	57.9-140	%REC	1	5/31/2015 4:26:00 AM	19454
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 1:42:54 PM	19456
Surr: BFB	91.8	75.4-113	%REC	1	6/1/2015 1:42:54 PM	19456
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.049	mg/Kg	1	6/1/2015 1:42:54 PM	19456
Toluene	ND	0.049	mg/Kg	1	6/1/2015 1:42:54 PM	19456
Ethylbenzene	ND	0.049	mg/Kg	1	6/1/2015 1:42:54 PM	19456
Xylenes, Total	ND	0.098	mg/Kg	1	6/1/2015 1:42:54 PM	19456
Surr: 4-Bromofluorobenzene	100	80-120	%REC	1	6/1/2015 1:42:54 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

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- Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SED 9 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 4:00:00 PM

 Lab ID:
 1505B92-016
 Matrix: SEDIMENT
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	170	30		mg/Kg	20	6/1/2015 9:41:19 PM	19495
EPA METHOD 8015D: DIESEL RANGE					Analys	t: KJH	
Diesel Range Organics (DRO)	78	9.8		mg/Kg	1	6/2/2015 2:22:09 PM	19454
Surr: DNOP	149	57.9-140	S	%REC	1	6/2/2015 2:22:09 PM	19454
EPA METHOD 8015D: GASOLINE RAN					Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/1/2015 2:11:36 PM	19456
Surr: BFB	91.4	75.4-113		%REC	1	6/1/2015 2:11:36 PM	19456
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.049		mg/Kg	1	6/1/2015 2:11:36 PM	19456
Toluene	ND	0.049		mg/Kg	1	6/1/2015 2:11:36 PM	19456
Ethylbenzene	ND	0.049		mg/Kg	1	6/1/2015 2:11:36 PM	19456
Xylenes, Total	ND	0.097		mg/Kg	1	6/1/2015 2:11:36 PM	19456
Surr: 4-Bromofluorobenzene	98.9	80-120		%REC	1	6/1/2015 2:11:36 PM	19456

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 16 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/4/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: SW 8 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/26/2015 4:45:00 PM

 Lab ID:
 1505B92-017
 Matrix: AQUEOUS
 Received Date: 5/28/2015 9:05:00 AM

Analyses	Result	RL (Qual	Units	DF Date Analyzed Batch
EPA METHOD 300.0: ANIONS					Analyst: LGT
Chloride	2300	100	*	mg/L	200 6/3/2015 12:54:55 AM R26575
EPA METHOD 8015D: DIESEL RANGE					Analyst: KJH
Diesel Range Organics (DRO)	ND	1.0		mg/L	1 6/2/2015 2:37:07 PM 19455
Surr: DNOP	109	76.5-150		%REC	1 6/2/2015 2:37:07 PM 19455
EPA METHOD 8015D: GASOLINE RANG	Analyst: NSB				
Gasoline Range Organics (GRO)	ND	0.050		mg/L	1 6/1/2015 3:28:38 PM R26543
Surr: BFB	84.2	57.8-137		%REC	1 6/1/2015 3:28:38 PM R26543
EPA METHOD 8021B: VOLATILES					Analyst: NSB
Benzene	ND	1.0		μg/L	1 5/29/2015 7:04:39 PM R26505
Toluene	ND	1.0		μg/L	1 5/29/2015 7:04:39 PM R26505
Ethylbenzene	ND	1.0		μg/L	1 5/29/2015 7:04:39 PM R26505
Xylenes, Total	ND	2.0		μg/L	1 5/29/2015 7:04:39 PM R26505
Surr: 4-Bromofluorobenzene	102	80-120		%REC	1 5/29/2015 7:04:39 PM R26505

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 17 of 26
- P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505B92**

04-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19495 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 19495 RunNo: 26529

Prep Date: 6/1/2015 Analysis Date: 6/1/2015 SeqNo: 789176 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-19495 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 19495 RunNo: 26529

Prep Date: 6/1/2015 Analysis Date: 6/1/2015 SeqNo: 789177 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 93.3 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1505B92

04-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBW Batch ID: R26575 RunNo: 26575

Prep Date: Analysis Date: 6/2/2015 SeqNo: 790951 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 0.50

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSW Batch ID: R26575 RunNo: 26575

Prep Date: Analysis Date: 6/2/2015 SeqNo: 790952 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 5.1 0.50 5.000 0 102 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

82

8.8

WO#: **1505B92**

S

S

04-Jun-15

Client:	GL Environmental Inc
Project:	Red Bluff Draw

Sample ID MB-19454	SampType: MBLK	TestCode: EPA Method	8015D: Diesel Range Organics				
Client ID: PBS	Batch ID: 19454	RunNo: 26506					
Prep Date: 5/29/2015	Analysis Date: 5/30/2015	SeqNo: 787713	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Diesel Range Organics (DRO)	ND 10						
Surr: DNOP	11 10.00	109 57.9	140				
Sample ID LCS-19454	SampType: LCS	TestCode: EPA Method	8015D: Diesel Range Organics				
Client ID: LCSS	Batch ID: 19454	RunNo: 26506					
Prep Date: 5/29/2015	Analysis Date: 5/30/2015	SeqNo: 787722	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				
Diesel Range Organics (DRO)	44 10 50.00	0 88.2 67.8	130				
Surr: DNOP	4.4 5.000	88.1 57.9	140				
Sample ID 1505B92-002	AMS SampType: MS	mpType: MS TestCode: EPA Method 8015D: Diesel Range Organics					
Client ID: SED I (REF)	Batch ID: 19454	RunNo: 26506					
Prep Date: 5/29/2015	Analysis Date: 5/31/2015	SeqNo: 787837	Units: mg/Kg				
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual				

Sample ID 1505B92-002AM	SD SampT	D SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics								
Client ID: SED I (REF)	Batch	1D: 19	454	F	RunNo: 2	6506				
Prep Date: 5/29/2015	Analysis D	ate: 5/	31/2015	8	SeqNo: 7	87838	Units: mg/k	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	82	9.9	49.46	0	166	42.3	146	0.533	28.9	S
Surr: DNOP	8.9		4.946		179	57.9	140	0	0	S

166

177

42.3

57.9

146

140

49.55

4.955

Qualifiers:

Diesel Range Organics (DRO)

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505B92**

04-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19455 SampType: MBLK TestCode: EPA Method 8015D: Diesel Range Client ID: PBW Batch ID: 19455 RunNo: 26548 Prep Date: 5/29/2015 Analysis Date: 6/2/2015 SeqNo: 789243 Units: mg/L Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) ND 1.0 Surr: DNOP 1.000 112 76.5 1.1 150

Sample ID LCS-19455 SampType: LCS TestCode: EPA Method 8015D: Diesel Range

Client ID: LCSW Batch ID: 19455 RunNo: 26548

0.46

Prep Date: 5/29/2015 Analysis Date: 6/2/2015 SeqNo: 789244 Units: mg/L

0.5000

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 5.6 1.0 5.000 0 111 60.1 156

92.7

76.5

150

Qualifiers:

Surr: DNOP

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1505B92

04-Jun-15

Client: GL Environmental Inc **Project:** Red Bluff Draw

Sample ID MB-19456 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: **PBS** Batch ID: 19456 RunNo: 26508

Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787727 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Gasoline Range Organics (GRO) ND 5.0

1000 Surr: BFB 890 88.8 75.4 113

Sample ID LCS-19456 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 19456 RunNo: 26508

Analysis Date: 5/30/2015 SeqNo: 787728 Prep Date: 5/29/2015 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 5.0 25.00 99.6 64 130

950 Surr: BFB 1000 95.0 75.4 113

Sample ID 1505B92-002AMS SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: SED I (REF) Batch ID: 19456 RunNo: 26508

Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787750 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result **PQL** LowLimit HighLimit Qual Gasoline Range Organics (GRO) 28 4.8 23.88 117 47.9 144 Surr: BFB 930 955.1 96.9 75.4 113

Sample ID 1505B92-002AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: SED I (REF) Batch ID: 19456 RunNo: 26508

Analysis Date: 5/30/2015 Prep Date: 5/29/2015 SeqNo: 787752 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 29 4.8 23.85 120 47.9 144 2.63 29.9 Λ Surr: BFB 940 954.2 98.0 75.4 113 0 0

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Η Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Reporting Detection Limit

P Sample pH Not In Range

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1505B92

04-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBW Batch ID: R26543 RunNo: 26543

Prep Date: Analysis Date: 6/1/2015 SeqNo: 788809 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 0.050

Surr: BFB 16 20.00 79.0 57.8 137

Sample ID 2.5UG GRO LCS SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSW Batch ID: R26543 RunNo: 26543

Prep Date: Analysis Date: 6/1/2015 SeqNo: 788810 Units: mg/L

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 0.47
 0.050
 0.5000
 0
 93.1
 80
 120

 Surr: BFB
 16
 20.00
 80.9
 57.8
 137

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505B92**

04-Jun-15

Client:	GL Environmental Inc
Project:	Red Bluff Draw

Sample ID MB-19456 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 19456 RunNo: 26508 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787756 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.050 Benzene ND Toluene ND 0.050 0.050 Ethylbenzene ND Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.97 1.000 97.0 80 120

Sample ID LCS-19456 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: **LCSS** Batch ID: 19456 RunNo: 26508 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787757 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.0 0.050 1.000 0 102 76.6 128 Benzene Toluene 1.0 0.050 1.000 0 104 75 124 Ethylbenzene 0.050 1.000 0 104 79.5 126 1.0 Xylenes, Total 3.1 0.10 3.000 0 102 78.8 124 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

Sample ID 1505B92-004AMS SampType: MS TestCode: EPA Method 8021B: Volatiles Client ID: SED 2 RBD RunNo: 26508 Batch ID: 19456 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787761 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.2 0.049 0.9766 119 69.2 126 0 Toluene 1.2 0.049 0.9766 0 120 65.6 128 65.5 Ethylbenzene 0.049 0.9766 0 125 138 1.2 Xylenes, Total 0.098 0 122 3.6 2.930 63 139 Surr: 4-Bromofluorobenzene 0.9766 102 80 1.0 120

Sample ID 1505B92-004AM	I SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SED 2 RBD	Batch	ı ID: 19 4	456	R	RunNo: 2	6508				
Prep Date: 5/29/2015	Analysis D	ate: 5/	30/2015	S	SeqNo: 7 8	87762	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.049	0.9785	0	101	69.2	126	16.4	18.5	
Toluene	0.99	0.049	0.9785	0	101	65.6	128	17.5	20.6	
Ethylbenzene	1.0	0.049	0.9785	0	103	65.5	138	18.7	20.1	
Xylenes, Total	3.0	0.098	2.935	0	102	63	139	17.7	21.1	
Surr: 4-Bromofluorobenzene	1.0		0.9785		103	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505B92**

04-Jun-15

Client: GL Environmental Inc Project: Red Bluff Draw

Sample ID 5ML RB	•	ype: ME			tCode: El		8021B: Volat	iles		
Client ID: PBW Prep Date:	Analysis D	n ID: R2 Date: 5/	29/2015	-	SeaNo: 7		Units: µg/L			
Analyte	Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	1.0	31 K value	Of It Itel val	/orceo	LOWLITHIC	riigriLiiriit	701X1 D	NI DLIIIII	Quai
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	2.0								
Surr: 4-Bromofluorobenzene	21		20.00		105	80	120			

Sample ID 100NG BTEX LC	S SampT	ype: LC	s	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: LCSW	Batch	1D: R2	6505	F	RunNo: 2	6505				
Prep Date:	Analysis D	ate: 5/	29/2015	8	SeqNo: 7	87689	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	23	1.0	20.00	0	116	80	120			
Toluene	23	1.0	20.00	0	117	80	120			
Ethylbenzene	22	1.0	20.00	0	112	80	120			
Xylenes, Total	66	2.0	60.00	0	110	80	120			
Surr: 4-Bromofluorobenzene	22		20.00		108	80	120			

Sample ID 1505B92-003AMS	SampT	ype: MS	6	Tes	tCode: El	PA Method	8021B: Volat	iles		
Client ID: SW 2 RBD	Batch	1D: R2	6505	R	RunNo: 2	6505				
Prep Date:	Analysis D	ate: 5/	29/2015	S	SeqNo: 7	87695	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	19	1.0	20.00	0	97.2	77.5	121			
Toluene	23	1.0	20.00	0	114	78.6	122			
Ethylbenzene	21	1.0	20.00	0	107	78.1	128			
Xylenes, Total	64	2.0	60.00	0	106	80	120			
Surr: 4-Bromofluorobenzene	23		20.00		116	80	120			

Sample ID 1505B92-003AM	SD SampT	ype: MS	SD	Tes	tCode: El	PA Method	8021B: Volat	les		
Client ID: SW 2 RBD	Batch	ID: R2	6505	F	RunNo: 2	6505				
Prep Date:	Analysis D	ate: 5/	29/2015	8	SeqNo: 7	87696	Units: µg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	22	1.0	20.00	0	112	77.5	121	14.0	20	
Toluene	22	1.0	20.00	0	112	78.6	122	1.71	20	
Ethylbenzene	21	1.0	20.00	0	105	78.1	128	2.33	20	
Xylenes, Total	62	2.0	60.00	0	103	80	120	2.50	20	
Surr: 4-Bromofluorobenzene	22		20.00		108	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505B92**

04-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID 5ML RB SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBW Batch ID: R26543 RunNo: 26543

Prep Date: Analysis Date: 6/1/2015 SeqNo: 788822 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 19 20.00 97.0 80 120

Sample ID 100NG BTEX LCS SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSW Batch ID: R26543 RunNo: 26543

Prep Date: Analysis Date: 6/1/2015 SeqNo: 788823 Units: %REC

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 22 20.00 112 80 120

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE. Albuquerque, NM 87109

Sample Log-In Check List

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com RcptNo 1 Client Name: GL Environmental Inc Work Order Number: 1505B92 Received by/date: 5/28/2015 9:05:00 AM Logged By: Ashley Gallegos Ashley Gallegos 5/28/2015 10:04:35 AM Completed By: 7 05/29/15 Reviewed By: Chain of Custody Yes No _ Not Present Custody seals intact on sample bottles? No Not Present Yes 🗸 2. Is Chain of Custody complete? 3. How was the sample delivered? FedEx Log In No. NA _ Yes V 4. Was an attempt made to cool the samples? NA . 5. Were all samples received at a temperature of >0° C to 6.0°C Yes 🗸 No . Yes V Sample(s) in proper container(s)? No Yes V Sufficient sample volume for indicated test(s)? No . Yes V 8. Are samples (except VOA and ONG) properly preserved? NA 🗌 Yes 9. Was preservative added to bottles? No V No VOA Vials No Yes V 10. VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked No. for pH: Yes 🗸 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No 🗌 13, Are matrices correctly identified on Chain of Custody? Yes V No Yes 14. Is it clear what analyses were requested? Checked by: Yes V No _ 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes No 🗌 NA V 16. Was client notified of all discrepancies with this order? Person Notified: Date Phone Fax By Whom: Via: eMail Regarding: Client Instructions:

Additional remarks:

18. Cooler Information

1	pooler inform						
	Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
	1	3.1	Good				

ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	Albuquerque, NM 87109	505-345-4107	Request	S,	5 bCB		(AC	(A(560B (Yearl mes) 072	28													Tav. 42	Sk. net	es The	edited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 09, 2015

Matt Lane

GL Environmental Inc

PO Box 1746

Las Vegas, NM 87701

TEL: (505) 454-0830

FAX

RE: Red Bluff Draw OrderNo.: 1505C59

Dear Matt Lane:

Hall Environmental Analysis Laboratory received 62 sample(s) on 5/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Indest

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 3 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 8:45:00 AM

 Lab ID:
 1505C59-001
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	:: LGT
Chloride	39	30	mg/Kg	20	6/1/2015 12:22:49 PM	19484
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 1:48:09 PM	19468
Surr: DNOP	119	57.9-140	%REC	1	5/30/2015 1:48:09 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2015 9:36:13 AM	19461
Surr: BFB	78.4	75.4-113	%REC	1	5/30/2015 9:36:13 AM	19461
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 9:36:13 AM	19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 9:36:13 AM	19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 9:36:13 AM	19461
Xylenes, Total	ND	0.095	mg/Kg	1	5/30/2015 9:36:13 AM	19461
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	5/30/2015 9:36:13 AM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 76

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 3 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 8:45:00 AM

 Lab ID:
 1505C59-002
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	78	30	mg/Kg	20	6/1/2015 1:00:03 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 3:10:00 PM	19468
Surr: DNOP	111	57.9-140	%REC	1	5/30/2015 3:10:00 PM	19468
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2015 10:52:40 AM	1 19461
Surr: BFB	76.8	75.4-113	%REC	1	5/30/2015 10:52:40 AM	1 19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 10:52:40 AM	1 19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 10:52:40 AM	1 19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 10:52:40 AM	1 19461
Xylenes, Total	ND	0.096	mg/Kg	1	5/30/2015 10:52:40 AM	1 19461
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	5/30/2015 10:52:40 AM	1 19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 76

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 3 1.5-2.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 8:45:00 AM

 Lab ID: 1505C59-003
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	260	30	mg/Kg	20	6/1/2015 1:37:17 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/30/2015 3:37:42 PM	19468
Surr: DNOP	120	57.9-140	%REC	1	5/30/2015 3:37:42 PM	19468
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2015 12:08:18 PM	1 19461
Surr: BFB	77.4	75.4-113	%REC	1	5/30/2015 12:08:18 PM	1 19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 12:08:18 PM	1 19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 12:08:18 PM	1 19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 12:08:18 PM	1 19461
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2015 12:08:18 PM	1 19461
Surr: 4-Bromofluorobenzene	90.9	80-120	%REC	1	5/30/2015 12:08:18 PM	1 19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 76

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 3 2.5-3.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 8:45:00 AM

 Lab ID: 1505C59-004
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	280	30	mg/Kg	20	6/1/2015 1:49:41 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 4:05:10 PM	19468
Surr: DNOP	104	57.9-140	%REC	1	5/30/2015 4:05:10 PM	19468
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 4:50:50 PM	19461
Surr: BFB	91.8	75.4-113	%REC	1	5/31/2015 4:50:50 PM	19461
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2015 12:33:23 PM	l 19461
Toluene	ND	0.049	mg/Kg	1	5/30/2015 12:33:23 PM	l 19461
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2015 12:33:23 PM	l 19461
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2015 12:33:23 PM	l 19461
Surr: 4-Bromofluorobenzene	83.8	80-120	%REC	1	5/30/2015 12:33:23 PM	l 19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 3 3.5-4.0' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 8:45:00 AM 1505C59-005 Matrix: SOIL Lab ID: **Received Date:** 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	210	30	mg/Kg	20	6/1/2015 2:02:06 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 4:32:43 PM	19468
Surr: DNOP	101	57.9-140	%REC	1	5/30/2015 4:32:43 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 5:19:34 PM	19461
Surr: BFB	91.3	75.4-113	%REC	1	5/31/2015 5:19:34 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 12:58:30 PM	И 19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 12:58:30 PM	√ 19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 12:58:30 PM	√ 19461
Xylenes, Total	ND	0.093	mg/Kg	1	5/30/2015 12:58:30 PM	√ 19461
Surr: 4-Bromofluorobenzene	84.2	80-120	%REC	1	5/30/2015 12:58:30 PM	M 19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit

Page 5 of 76

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 2 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 9:00:00 AM

 Lab ID:
 1505C59-006
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	t: LGT
Chloride	210	30	mg/Kg	20	6/1/2015 2:14:31 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 5:00:34 PM	19468
Surr: DNOP	102	57.9-140	%REC	1	5/30/2015 5:00:34 PM	19468
EPA METHOD 8015D: GASOLINE RAM	NGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 5:48:15 PM	19461
Surr: BFB	90.3	75.4-113	%REC	1	5/31/2015 5:48:15 PM	19461
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 1:23:47 PM	19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 1:23:47 PM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 1:23:47 PM	19461
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2015 1:23:47 PM	19461
Surr: 4-Bromofluorobenzene	80.4	80-120	%REC	1	5/30/2015 1:23:47 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 2 .5-1.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 9:00:00 AM

 Lab ID: 1505C59-007
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	46	30	mg/Kg	20	6/1/2015 2:51:44 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 5:28:23 PM	19468
Surr: DNOP	103	57.9-140	%REC	1	5/30/2015 5:28:23 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2015 1:49:11 PM	19461
Surr: BFB	75.7	75.4-113	%REC	1	5/30/2015 1:49:11 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 1:49:11 PM	19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 1:49:11 PM	19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 1:49:11 PM	19461
Xylenes, Total	ND	0.095	mg/Kg	1	5/30/2015 1:49:11 PM	19461
Surr: 4-Bromofluorobenzene	84.3	80-120	%REC	1	5/30/2015 1:49:11 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 7 of 76

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 2 1.5-2.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 9:00:00 AM

 Lab ID:
 1505C59-008
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	63	30		mg/Kg	20	6/1/2015 3:04:09 PM	19484
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	5/30/2015 5:55:58 PM	19468
Surr: DNOP	102	57.9-140		%REC	1	5/30/2015 5:55:58 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	6/1/2015 11:17:49 PM	19461
Surr: BFB	115	75.4-113	S	%REC	1	6/1/2015 11:17:49 PM	19461
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.050		mg/Kg	1	6/1/2015 11:17:49 PM	19461
Toluene	ND	0.050		mg/Kg	1	6/1/2015 11:17:49 PM	19461
Ethylbenzene	ND	0.050		mg/Kg	1	6/1/2015 11:17:49 PM	19461
Xylenes, Total	ND	0.10		mg/Kg	1	6/1/2015 11:17:49 PM	19461
Surr: 4-Bromofluorobenzene	109	80-120		%REC	1	6/1/2015 11:17:49 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit D
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

Page 8 of 76

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 1 0-.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 9:15:00 AM

 Lab ID:
 1505C59-009
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1600	75	mg/Kg	50	6/2/2015 4:21:14 PM	19484
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 6:23:48 PM	19468
Surr: DNOP	105	57.9-140	%REC	1	5/30/2015 6:23:48 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 6:17:01 PM	19461
Surr: BFB	91.4	75.4-113	%REC	1	5/31/2015 6:17:01 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 2:39:56 PM	19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 2:39:56 PM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 2:39:56 PM	19461
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2015 2:39:56 PM	19461
Surr: 4-Bromofluorobenzene	82.6	80-120	%REC	1	5/30/2015 2:39:56 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 1.5-1.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 9:15:00 AM

 Lab ID:
 1505C59-010
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	200	30	mg/Kg	20	6/1/2015 3:28:58 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 6:51:39 PM	19468
Surr: DNOP	103	57.9-140	%REC	1	5/30/2015 6:51:39 PM	19468
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2015 11:46:35 PM	19461
Surr: BFB	99.2	75.4-113	%REC	1	6/1/2015 11:46:35 PM	19461
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.050	mg/Kg	1	6/1/2015 11:46:35 PM	19461
Toluene	ND	0.050	mg/Kg	1	6/1/2015 11:46:35 PM	19461
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2015 11:46:35 PM	19461
Xylenes, Total	ND	0.10	mg/Kg	1	6/1/2015 11:46:35 PM	19461
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	6/1/2015 11:46:35 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 1.5-2.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 9:15:00 AM

 Lab ID: 1505C59-011
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	190	30	mg/Kg	20	6/1/2015 3:41:22 PM	19484
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/30/2015 7:46:50 PM	19468
Surr: DNOP	105	57.9-140	%REC	1	5/30/2015 7:46:50 PM	19468
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/30/2015 5:11:17 PM	19461
Surr: BFB	78.6	75.4-113	%REC	1	5/30/2015 5:11:17 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	:: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 5:11:17 PM	19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 5:11:17 PM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 5:11:17 PM	19461
Xylenes, Total	ND	0.093	mg/Kg	1	5/30/2015 5:11:17 PM	19461
Surr: 4-Bromofluorobenzene	94.7	80-120	%REC	1	5/30/2015 5:11:17 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Page 11 of 76
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 1 2.5-3.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 9:15:00 AM

 Lab ID:
 1505C59-012
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	70	30	mg/Kg	20	6/1/2015 3:53:47 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 8:14:27 PM	19468
Surr: DNOP	105	57.9-140	%REC	1	5/30/2015 8:14:27 PM	19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2015 1:27:45 AM	19461
Surr: BFB	90.0	75.4-113	%REC	1	6/1/2015 1:27:45 AM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 5:36:37 PM	19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 5:36:37 PM	19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 5:36:37 PM	19461
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2015 5:36:37 PM	19461
Surr: 4-Bromofluorobenzene	82.9	80-120	%REC	1	5/30/2015 5:36:37 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 12 of 76
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 5 0-.5' Comp RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:15:00 AM

 Lab ID:
 1505C59-013
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	5500	300		mg/Kg	200	6/2/2015 4:33:38 PM	19484
EPA METHOD 8015D: DIESEL RANG	E ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	1200	99		mg/Kg	10	6/1/2015 2:58:47 PM	19468
Surr: DNOP	0	57.9-140	S	%REC	10	6/1/2015 2:58:47 PM	19468
EPA METHOD 8015D: GASOLINE RANGE						Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/30/2015 6:01:41 PM	19461
Surr: BFB	94.3	75.4-113		%REC	1	5/30/2015 6:01:41 PM	19461
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.048		mg/Kg	1	5/30/2015 6:01:41 PM	19461
Toluene	ND	0.048		mg/Kg	1	5/30/2015 6:01:41 PM	19461
Ethylbenzene	ND	0.048		mg/Kg	1	5/30/2015 6:01:41 PM	19461
Xylenes, Total	ND	0.096		mg/Kg	1	5/30/2015 6:01:41 PM	19461
Surr: 4-Bromofluorobenzene	100	80-120		%REC	1	5/30/2015 6:01:41 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 5 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:15:00 AM

 Lab ID:
 1505C59-014
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	4600	150	mg/Kg	100	6/2/2015 4:46:03 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 10:04:15 PM	/I 19468
Surr: DNOP	108	57.9-140	%REC	1	5/30/2015 10:04:15 PM	<i>l</i> 19468
EPA METHOD 8015D: GASOLINE R	EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/1/2015 1:56:28 AM	19461
Surr: BFB	90.2	75.4-113	%REC	1	6/1/2015 1:56:28 AM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 6:26:44 PM	19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 6:26:44 PM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 6:26:44 PM	19461
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2015 6:26:44 PM	19461
Surr: 4-Bromofluorobenzene	84.7	80-120	%REC	1	5/30/2015 6:26:44 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 5 1.5-2.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:15:00 AM

 Lab ID:
 1505C59-015
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	3400	150	mg/Kg	100	6/2/2015 4:58:27 PM	19484
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 10:31:34 PM	19468
Surr: DNOP	109	57.9-140	%REC	1	5/30/2015 10:31:34 PM	19468
EPA METHOD 8015D: GASOLINE RA	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2015 6:52:07 PM	19461
Surr: BFB	75.9	75.4-113	%REC	1	5/30/2015 6:52:07 PM	19461
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2015 6:52:07 PM	19461
Toluene	ND	0.049	mg/Kg	1	5/30/2015 6:52:07 PM	19461
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2015 6:52:07 PM	19461
Xylenes, Total	ND	0.099	mg/Kg	1	5/30/2015 6:52:07 PM	19461
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	5/30/2015 6:52:07 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 5 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:15:00 AM

 Lab ID:
 1505C59-016
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	1900	75	mg/Kg	50	6/2/2015 5:35:41 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/30/2015 10:59:00 PM	M 19468
Surr: DNOP	111	57.9-140	%REC	1	5/30/2015 10:59:00 PM	M 19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/30/2015 7:17:27 PM	19461
Surr: BFB	75.9	75.4-113	%REC	1	5/30/2015 7:17:27 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 7:17:27 PM	19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 7:17:27 PM	19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 7:17:27 PM	19461
Xylenes, Total	ND	0.096	mg/Kg	1	5/30/2015 7:17:27 PM	19461
Surr: 4-Bromofluorobenzene	88.9	80-120	%REC	1	5/30/2015 7:17:27 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 5 3.5'-4.0'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:15:00 AM

 Lab ID:
 1505C59-017
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	2600	150	mg/Kg	100	6/2/2015 5:48:05 PM	19484
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/30/2015 11:26:01 PM	1 19468
Surr: DNOP	105	57.9-140	%REC	1	5/30/2015 11:26:01 PM	1 19468
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/1/2015 2:25:12 AM	19461
Surr: BFB	89.5	75.4-113	%REC	1	6/1/2015 2:25:12 AM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/30/2015 7:42:28 PM	19461
Toluene	ND	0.047	mg/Kg	1	5/30/2015 7:42:28 PM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	5/30/2015 7:42:28 PM	19461
Xylenes, Total	ND	0.094	mg/Kg	1	5/30/2015 7:42:28 PM	19461
Surr: 4-Bromofluorobenzene	80.9	80-120	%REC	1	5/30/2015 7:42:28 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit D
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 6 0-.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:45:00 AM

 Lab ID:
 1505C59-018
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	35	30	mg/Kg	20	6/1/2015 5:33:05 PM	19484
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	37	10	mg/Kg	1	5/30/2015 11:53:24 PM	<i>l</i> 19468
Surr: DNOP	112	57.9-140	%REC	1	5/30/2015 11:53:24 PM	<i>l</i> l 19468
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/30/2015 8:07:36 PM	19461
Surr: BFB	76.1	75.4-113	%REC	1	5/30/2015 8:07:36 PM	19461
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/30/2015 8:07:36 PM	19461
Toluene	ND	0.049	mg/Kg	1	5/30/2015 8:07:36 PM	19461
Ethylbenzene	ND	0.049	mg/Kg	1	5/30/2015 8:07:36 PM	19461
Xylenes, Total	ND	0.098	mg/Kg	1	5/30/2015 8:07:36 PM	19461
Surr: 4-Bromofluorobenzene	88.0	80-120	%REC	1	5/30/2015 8:07:36 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 18 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 6 .5-1.5'

Project: Red Bluff Draw Collection Date: 5/27/2015 10:45:00 AM 1505C59-019 Matrix: SOIL Lab ID: **Received Date:** 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	77	30	mg/Kg	20	6/1/2015 10:18:33 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 12:47:24 AM	19468
Surr: DNOP	106	57.9-140	%REC	1	5/31/2015 12:47:24 AM	19468
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2015 2:53:50 AM	19461
Surr: BFB	90.4	75.4-113	%REC	1	6/1/2015 2:53:50 AM	19461
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	5/30/2015 8:32:48 PM	19461
Toluene	ND	0.048	mg/Kg	1	5/30/2015 8:32:48 PM	19461
Ethylbenzene	ND	0.048	mg/Kg	1	5/30/2015 8:32:48 PM	19461
Xylenes, Total	ND	0.097	mg/Kg	1	5/30/2015 8:32:48 PM	19461
Surr: 4-Bromofluorobenzene	83.4	80-120	%REC	1	5/30/2015 8:32:48 PM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
 - Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 6 1.5-2.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:45:00 AM

 Lab ID:
 1505C59-020
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	80	30	mg/Kg	20	6/1/2015 10:55:46 PM	19495
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 1:14:28 AM	19468
Surr: DNOP	110	57.9-140	%REC	1	5/31/2015 1:14:28 AM	19468
EPA METHOD 8015D: GASOLINE RANG	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/2/2015 12:15:16 AM	19461
Surr: BFB	96.1	75.4-113	%REC	1	6/2/2015 12:15:16 AM	19461
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.047	mg/Kg	1	6/2/2015 12:15:16 AM	19461
Toluene	ND	0.047	mg/Kg	1	6/2/2015 12:15:16 AM	19461
Ethylbenzene	ND	0.047	mg/Kg	1	6/2/2015 12:15:16 AM	19461
Xylenes, Total	ND	0.095	mg/Kg	1	6/2/2015 12:15:16 AM	19461
Surr: 4-Bromofluorobenzene	102	80-120	%REC	1	6/2/2015 12:15:16 AM	19461

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 6 2.5-4.0'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 10:45:00 AM

 Lab ID:
 1505C59-021
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	:: LGT
Chloride	88	30	mg/Kg	20	6/1/2015 11:08:11 PM	19495
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 2:08:08 AM	19469
Surr: DNOP	111	57.9-140	%REC	1	5/31/2015 2:08:08 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/31/2015 10:08:01 AM	1 19462
Surr: BFB	90.5	75.4-113	%REC	1	5/31/2015 10:08:01 AM	1 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/31/2015 10:08:01 AM	1 19462
Toluene	ND	0.048	mg/Kg	1	5/31/2015 10:08:01 AM	1 19462
Ethylbenzene	ND	0.048	mg/Kg	1	5/31/2015 10:08:01 AM	1 19462
Xylenes, Total	ND	0.096	mg/Kg	1	5/31/2015 10:08:01 AM	1 19462
Surr: 4-Bromofluorobenzene	98.1	80-120	%REC	1	5/31/2015 10:08:01 AM	1 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 7 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-022
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	7.2	1.5	mg/Kg	1	6/2/2015 6:00:30 PM	19495
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 3:28:43 AM	19469
Surr: DNOP	103	57.9-140	%REC	1	5/31/2015 3:28:43 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 11:34:16 Al	И 19462
Surr: BFB	91.1	75.4-113	%REC	1	5/31/2015 11:34:16 Al	√ 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 11:34:16 Al	И 19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 11:34:16 Al	√ 19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 11:34:16 AM	√ 19462
Xylenes, Total	ND	0.098	mg/Kg	1	5/31/2015 11:34:16 AM	√ 19462
Surr: 4-Bromofluorobenzene	99.4	80-120	%REC	1	5/31/2015 11:34:16 AM	M 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 7 .5-1.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 11:25:00 AM 1505C59-023 Matrix: SOIL **Received Date:** 5/29/2015 9:08:00 AM Lab ID:

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	23	1.5	mg/Kg	1	6/2/2015 6:12:55 PM	19495
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2015 3:55:30 AM	19469
Surr: DNOP	99.6	57.9-140	%REC	1	5/31/2015 3:55:30 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 1:00:38 PM	19462
Surr: BFB	89.9	75.4-113	%REC	1	5/31/2015 1:00:38 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 1:00:38 PM	19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 1:00:38 PM	19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 1:00:38 PM	19462
Xylenes, Total	ND	0.098	mg/Kg	1	5/31/2015 1:00:38 PM	19462
Surr: 4-Bromofluorobenzene	97.4	80-120	%REC	1	5/31/2015 1:00:38 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 7 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-024
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	85	30	mg/Kg	20	6/1/2015 11:45:23 PM	19495
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 4:22:17 AM	19469
Surr: DNOP	100	57.9-140	%REC	1	5/31/2015 4:22:17 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/31/2015 1:29:25 PM	19462
Surr: BFB	91.1	75.4-113	%REC	1	5/31/2015 1:29:25 PM	19462
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.048	mg/Kg	1	5/31/2015 1:29:25 PM	19462
Toluene	ND	0.048	mg/Kg	1	5/31/2015 1:29:25 PM	19462
Ethylbenzene	ND	0.048	mg/Kg	1	5/31/2015 1:29:25 PM	19462
Xylenes, Total	ND	0.095	mg/Kg	1	5/31/2015 1:29:25 PM	19462
Surr: 4-Bromofluorobenzene	97.8	80-120	%REC	1	5/31/2015 1:29:25 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 7 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:00:00 AM

 Lab ID:
 1505C59-025
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	130	30	mg/Kg	20	6/1/2015 11:57:48 PM	19495
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	:: ЈМЕ
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 4:49:26 AM	19469
Surr: DNOP	102	57.9-140	%REC	1	5/31/2015 4:49:26 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 1:58:11 PM	19462
Surr: BFB	90.3	75.4-113	%REC	1	5/31/2015 1:58:11 PM	19462
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 1:58:11 PM	19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 1:58:11 PM	19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 1:58:11 PM	19462
Xylenes, Total	ND	0.098	mg/Kg	1	5/31/2015 1:58:11 PM	19462
Surr: 4-Bromofluorobenzene	96.3	80-120	%REC	1	5/31/2015 1:58:11 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 25 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 7 3.5-4.0 RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:00:00 AM

 Lab ID:
 1505C59-026
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	190	30	mg/Kg	20	6/2/2015 10:33:46 AM	19507
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2015 5:16:13 AM	19469
Surr: DNOP	103	57.9-140	%REC	1	5/31/2015 5:16:13 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 2:26:57 PM	19462
Surr: BFB	90.5	75.4-113	%REC	1	5/31/2015 2:26:57 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/31/2015 2:26:57 PM	19462
Toluene	ND	0.047	mg/Kg	1	5/31/2015 2:26:57 PM	19462
Ethylbenzene	ND	0.047	mg/Kg	1	5/31/2015 2:26:57 PM	19462
Xylenes, Total	ND	0.094	mg/Kg	1	5/31/2015 2:26:57 PM	19462
Surr: 4-Bromofluorobenzene	97.5	80-120	%REC	1	5/31/2015 2:26:57 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 8 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-027
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 2:45:49 PM	19507
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	st: JME
Diesel Range Organics (DRO)	10	10	mg/Kg	1	5/31/2015 5:43:00 AM	19469
Surr: DNOP	102	57.9-140	%REC	1	5/31/2015 5:43:00 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/31/2015 2:55:37 PM	19462
Surr: BFB	89.1	75.4-113	%REC	1	5/31/2015 2:55:37 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 2:55:37 PM	19462
Toluene	ND	0.050	mg/Kg	1	5/31/2015 2:55:37 PM	19462
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 2:55:37 PM	19462
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 2:55:37 PM	19462
Surr: 4-Bromofluorobenzene	94.6	80-120	%REC	1	5/31/2015 2:55:37 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
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- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 8 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-028
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 2:58:14 PM	19507
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 6:09:41 AM	19469
Surr: DNOP	91.8	57.9-140	%REC	1	5/31/2015 6:09:41 AM	19469
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 3:24:28 PM	19462
Surr: BFB	90.9	75.4-113	%REC	1	5/31/2015 3:24:28 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/31/2015 3:24:28 PM	19462
Toluene	ND	0.047	mg/Kg	1	5/31/2015 3:24:28 PM	19462
Ethylbenzene	ND	0.047	mg/Kg	1	5/31/2015 3:24:28 PM	19462
Xylenes, Total	ND	0.094	mg/Kg	1	5/31/2015 3:24:28 PM	19462
Surr: 4-Bromofluorobenzene	97.9	80-120	%REC	1	5/31/2015 3:24:28 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 8 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-029
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 3:10:39 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 6:36:28 AM	19469
Surr: DNOP	80.9	57.9-140	%REC	1	5/31/2015 6:36:28 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 3:53:16 PM	19462
Surr: BFB	90.9	75.4-113	%REC	1	5/31/2015 3:53:16 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 3:53:16 PM	19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 3:53:16 PM	19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 3:53:16 PM	19462
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 3:53:16 PM	19462
Surr: 4-Bromofluorobenzene	96.9	80-120	%REC	1	5/31/2015 3:53:16 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 29 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 8 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:25:00 AM

 Lab ID:
 1505C59-030
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 3:23:03 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/31/2015 7:03:10 AM	19469
Surr: DNOP	84.0	57.9-140	%REC	1	5/31/2015 7:03:10 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 4:22:02 PM	19462
Surr: BFB	89.9	75.4-113	%REC	1	5/31/2015 4:22:02 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/31/2015 4:22:02 PM	19462
Toluene	ND	0.047	mg/Kg	1	5/31/2015 4:22:02 PM	19462
Ethylbenzene	ND	0.047	mg/Kg	1	5/31/2015 4:22:02 PM	19462
Xylenes, Total	ND	0.094	mg/Kg	1	5/31/2015 4:22:02 PM	19462
Surr: 4-Bromofluorobenzene	95.5	80-120	%REC	1	5/31/2015 4:22:02 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 9 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:35:00 AM

 Lab ID:
 1505C59-031
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	12	7.5	mg/Kg	5	6/3/2015 3:35:28 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	14	10	mg/Kg	1	5/31/2015 7:56:23 AM	19469
Surr: DNOP	103	57.9-140	%REC	1	5/31/2015 7:56:23 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 8:40:43 PM	19462
Surr: BFB	87.6	75.4-113	%REC	1	5/31/2015 8:40:43 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 8:40:43 PM	19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 8:40:43 PM	19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 8:40:43 PM	19462
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 8:40:43 PM	19462
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	5/31/2015 8:40:43 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 31 of 76
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 9 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:35:00 AM

 Lab ID:
 1505C59-032
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	51	30	mg/Kg	20	6/2/2015 1:02:40 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 8:23:27 AM	19469
Surr: DNOP	99.1	57.9-140	%REC	1	5/31/2015 8:23:27 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/31/2015 9:09:25 PM	19462
Surr: BFB	88.4	75.4-113	%REC	1	5/31/2015 9:09:25 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/31/2015 9:09:25 PM	19462
Toluene	ND	0.048	mg/Kg	1	5/31/2015 9:09:25 PM	19462
Ethylbenzene	ND	0.048	mg/Kg	1	5/31/2015 9:09:25 PM	19462
Xylenes, Total	ND	0.096	mg/Kg	1	5/31/2015 9:09:25 PM	19462
Surr: 4-Bromofluorobenzene	93.8	80-120	%REC	1	5/31/2015 9:09:25 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Po
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 9 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:35:00 AM

 Lab ID:
 1505C59-033
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	52	30	mg/Kg	20	6/2/2015 1:15:05 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/31/2015 8:50:20 AM	19469
Surr: DNOP	93.1	57.9-140	%REC	1	5/31/2015 8:50:20 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	5/31/2015 9:38:06 PM	19462
Surr: BFB	89.1	75.4-113	%REC	1	5/31/2015 9:38:06 PM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	5/31/2015 9:38:06 PM	19462
Toluene	ND	0.048	mg/Kg	1	5/31/2015 9:38:06 PM	19462
Ethylbenzene	ND	0.048	mg/Kg	1	5/31/2015 9:38:06 PM	19462
Xylenes, Total	ND	0.096	mg/Kg	1	5/31/2015 9:38:06 PM	19462
Surr: 4-Bromofluorobenzene	94.5	80-120	%REC	1	5/31/2015 9:38:06 PM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 9 2.5'-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:35:00 AM

 Lab ID:
 1505C59-034
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	62	30	mg/Kg	20	6/2/2015 1:27:30 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 9:17:03 AM	19469
Surr: DNOP	96.0	57.9-140	%REC	1	5/31/2015 9:17:03 AM	19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 10:06:48 PM	И 19462
Surr: BFB	89.1	75.4-113	%REC	1	5/31/2015 10:06:48 PM	√ 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 10:06:48 PM	И 19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 10:06:48 PM	√ 19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 10:06:48 PM	√ 19462
Xylenes, Total	ND	0.097	mg/Kg	1	5/31/2015 10:06:48 PM	M 19462
Surr: 4-Bromofluorobenzene	94.8	80-120	%REC	1	5/31/2015 10:06:48 PM	M 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 9 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 11:35:00 AM

 Lab ID:
 1505C59-035
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	83	30	mg/Kg	20	6/2/2015 1:39:55 PM	19507
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 9:43:51 AM	19469
Surr: DNOP	92.4	57.9-140	%REC	1	5/31/2015 9:43:51 AM	19469
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	5/31/2015 10:35:29 PM	1 19462
Surr: BFB	88.6	75.4-113	%REC	1	5/31/2015 10:35:29 PM	1 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	5/31/2015 10:35:29 PM	1 19462
Toluene	ND	0.047	mg/Kg	1	5/31/2015 10:35:29 PM	1 19462
Ethylbenzene	ND	0.047	mg/Kg	1	5/31/2015 10:35:29 PM	1 19462
Xylenes, Total	ND	0.093	mg/Kg	1	5/31/2015 10:35:29 PM	1 19462
Surr: 4-Bromofluorobenzene	93.1	80-120	%REC	1	5/31/2015 10:35:29 PM	1 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 35 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 10 0-.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 12:10:00 PM 1505C59-036 Matrix: SOIL Lab ID: **Received Date:** 5/29/2015 9:08:00 AM

Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	32	30	mg/Kg	20	6/2/2015 1:52:19 PM	19507
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2015 10:10:50 AM	Л 19469
Surr: DNOP	98.6	57.9-140	%REC	1	5/31/2015 10:10:50 AM	<i>I</i> 19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 11:04:06 PM	Л 19462
Surr: BFB	87.3	75.4-113	%REC	1	5/31/2015 11:04:06 PM	Л 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 11:04:06 PM	И 19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 11:04:06 PM	<i>I</i> 19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 11:04:06 PM	<i>I</i> 19462
Xylenes, Total	ND	0.097	mg/Kg	1	5/31/2015 11:04:06 PM	<i>I</i> 19462
Surr: 4-Bromofluorobenzene	90.5	80-120	%REC	1	5/31/2015 11:04:06 PM	<i>I</i> 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 10 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:10:00 PM

 Lab ID:
 1505C59-037
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	40	30	mg/Kg	20	6/2/2015 2:04:44 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 11:05:11 AM	Л 19469
Surr: DNOP	95.6	57.9-140	%REC	1	5/31/2015 11:05:11 AM	Л 19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 11:32:54 PM	И 19462
Surr: BFB	88.0	75.4-113	%REC	1	5/31/2015 11:32:54 PM	Л 19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 11:32:54 PM	И 19462
Toluene	ND	0.049	mg/Kg	1	5/31/2015 11:32:54 PM	<i>I</i> 19462
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 11:32:54 PM	Л 19462
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 11:32:54 PM	<i>I</i> 19462
Surr: 4-Bromofluorobenzene	93.2	80-120	%REC	1	5/31/2015 11:32:54 PM	И 19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 10 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:10:00 PM

 Lab ID:
 1505C59-038
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	18	7.5	mg/Kg	5	6/3/2015 3:47:52 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 11:32:23 AM	M 19469
Surr: DNOP	96.8	57.9-140	%REC	1	5/31/2015 11:32:23 Al	M 19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2015 12:01:34 AM	19462
Surr: BFB	90.3	75.4-113	%REC	1	6/1/2015 12:01:34 AM	19462
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	6/1/2015 12:01:34 AM	19462
Toluene	ND	0.048	mg/Kg	1	6/1/2015 12:01:34 AM	19462
Ethylbenzene	ND	0.048	mg/Kg	1	6/1/2015 12:01:34 AM	19462
Xylenes, Total	ND	0.095	mg/Kg	1	6/1/2015 12:01:34 AM	19462
Surr: 4-Bromofluorobenzene	95.7	80-120	%REC	1	6/1/2015 12:01:34 AM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 38 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 10 2.5-3.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 12:10:00 PM

 Lab ID: 1505C59-039
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	10	7.5	mg/Kg	5	6/3/2015 4:25:06 PM	19507
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/31/2015 11:59:39 AM	Л 19469
Surr: DNOP	97.6	57.9-140	%REC	1	5/31/2015 11:59:39 AM	Л 19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/1/2015 12:30:18 AM	19462
Surr: BFB	91.5	75.4-113	%REC	1	6/1/2015 12:30:18 AM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	6/1/2015 12:30:18 AM	19462
Toluene	ND	0.048	mg/Kg	1	6/1/2015 12:30:18 AM	19462
Ethylbenzene	ND	0.048	mg/Kg	1	6/1/2015 12:30:18 AM	19462
Xylenes, Total	ND	0.096	mg/Kg	1	6/1/2015 12:30:18 AM	19462
Surr: 4-Bromofluorobenzene	97.6	80-120	%REC	1	6/1/2015 12:30:18 AM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 39 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 10 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:10:00 PM

 Lab ID:
 1505C59-040
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	16	7.5	mg/Kg	5	6/3/2015 4:37:31 PM	19507
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 12:26:59 PM	Л 19469
Surr: DNOP	93.7	57.9-140	%REC	1	5/31/2015 12:26:59 PM	<i>l</i> l 19469
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 12:59:03 AM	19462
Surr: BFB	90.5	75.4-113	%REC	1	6/1/2015 12:59:03 AM	19462
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/1/2015 12:59:03 AM	19462
Toluene	ND	0.049	mg/Kg	1	6/1/2015 12:59:03 AM	19462
Ethylbenzene	ND	0.049	mg/Kg	1	6/1/2015 12:59:03 AM	19462
Xylenes, Total	ND	0.099	mg/Kg	1	6/1/2015 12:59:03 AM	19462
Surr: 4-Bromofluorobenzene	96.0	80-120	%REC	1	6/1/2015 12:59:03 AM	19462

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 40 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 11 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:30:00 PM

 Lab ID:
 1505C59-041
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	13	7.5	mg/Kg	5	6/3/2015 4:49:55 PM	19507
EPA METHOD 8015D: DIESEL RAN	EPA METHOD 8015D: DIESEL RANGE ORGANICS					t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2015 1:22:07 PM	19470
Surr: DNOP	90.3	57.9-140	%REC	1	5/31/2015 1:22:07 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 5:33:02 PM	19463
Surr: BFB	93.6	75.4-113	%REC	1	6/1/2015 5:33:02 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 9:44:40 AM	19463
Toluene	ND	0.049	mg/Kg	1	5/31/2015 9:44:40 AM	19463
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 9:44:40 AM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 9:44:40 AM	19463
Surr: 4-Bromofluorobenzene	84.7	80-120	%REC	1	5/31/2015 9:44:40 AM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 41 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 11 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:30:00 PM

 Lab ID:
 1505C59-042
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	13	7.5	mg/Kg	5	6/3/2015 5:02:20 PM	19507
EPA METHOD 8015D: DIESEL RAN	EPA METHOD 8015D: DIESEL RANGE ORGANICS					st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 2:45:35 PM	19470
Surr: DNOP	93.8	57.9-140	%REC	1	5/31/2015 2:45:35 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2015 6:01:46 PM	19463
Surr: BFB	92.9	75.4-113	%REC	1	6/1/2015 6:01:46 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 11:00:36 AI	M 19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 11:00:36 Af	M 19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 11:00:36 Al	M 19463
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 11:00:36 Al	M 19463
Surr: 4-Bromofluorobenzene	86.2	80-120	%REC	1	5/31/2015 11:00:36 Al	M 19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
 - RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 11 1.5-2.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 12:30:00 PM

 Lab ID: 1505C59-043
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	12	7.5	mg/Kg	5	6/3/2015 5:14:45 PM	19507
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/31/2015 3:13:43 PM	19470
Surr: DNOP	92.1	57.9-140	%REC	1	5/31/2015 3:13:43 PM	19470
EPA METHOD 8015D: GASOLINE R.	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/2/2015 12:44:00 AM	19463
Surr: BFB	95.8	75.4-113	%REC	1	6/2/2015 12:44:00 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/2/2015 12:44:00 AM	19463
Toluene	ND	0.049	mg/Kg	1	6/2/2015 12:44:00 AM	19463
Ethylbenzene	ND	0.049	mg/Kg	1	6/2/2015 12:44:00 AM	19463
Xylenes, Total	ND	0.098	mg/Kg	1	6/2/2015 12:44:00 AM	19463
Surr: 4-Bromofluorobenzene	103	80-120	%REC	1	6/2/2015 12:44:00 AM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 43 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 11 2.5-3.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:30:00 PM

 Lab ID:
 1505C59-044
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	11	7.5	mg/Kg	5	6/3/2015 5:27:10 PM	19507
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 3:41:49 PM	19470
Surr: DNOP	92.2	57.9-140	%REC	1	5/31/2015 3:41:49 PM	19470
EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2015 6:30:31 PM	19463
Surr: BFB	92.5	75.4-113	%REC	1	6/1/2015 6:30:31 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 12:42:02 PM	1 19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 12:42:02 PM	1 19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 12:42:02 PM	1 19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 12:42:02 PM	1 19463
Surr: 4-Bromofluorobenzene	80.6	80-120	%REC	1	5/31/2015 12:42:02 PM	1 19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Page 44 of 76
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 11 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:30:00 PM

 Lab ID:
 1505C59-045
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	38	30	mg/Kg	20	6/2/2015 4:08:50 PM	19507
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 4:09:54 PM	19470
Surr: DNOP	87.9	57.9-140	%REC	1	5/31/2015 4:09:54 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 1:12:44 AM	19463
Surr: BFB	95.1	75.4-113	%REC	1	6/2/2015 1:12:44 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/2/2015 1:12:44 AM	19463
Toluene	ND	0.050	mg/Kg	1	6/2/2015 1:12:44 AM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	6/2/2015 1:12:44 AM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	6/2/2015 1:12:44 AM	19463
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/2/2015 1:12:44 AM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 45 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 12 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 12:40:00 PM

 Lab ID:
 1505C59-046
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	21	7.5	mg/Kg	5	6/5/2015 9:57:17 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 4:38:15 PM	19470
Surr: DNOP	86.3	57.9-140	%REC	1	5/31/2015 4:38:15 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 1:41:28 AM	19463
Surr: BFB	95.4	75.4-113	%REC	1	6/2/2015 1:41:28 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 1:32:34 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 1:32:34 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 1:32:34 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 1:32:34 PM	19463
Surr: 4-Bromofluorobenzene	82.7	80-120	%REC	1	5/31/2015 1:32:34 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 12 .5-1.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 12:40:00 PM

 Lab ID: 1505C59-047
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 10:34:29 PM	19539
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 5:06:35 PM	19470
Surr: DNOP	92.8	57.9-140	%REC	1	5/31/2015 5:06:35 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 1:58:02 PM	19463
Surr: BFB	77.0	75.4-113	%REC	1	5/31/2015 1:58:02 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 1:58:02 PM	19463
Toluene	ND	0.049	mg/Kg	1	5/31/2015 1:58:02 PM	19463
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 1:58:02 PM	19463
Xylenes, Total	ND	0.098	mg/Kg	1	5/31/2015 1:58:02 PM	19463
Surr: 4-Bromofluorobenzene	86.8	80-120	%REC	1	5/31/2015 1:58:02 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 47 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Soil 12 1.5-2.5' RBD **CLIENT:** GL Environmental Inc

Project: Red Bluff Draw **Collection Date:** 5/27/2015 12:40:00 PM 1505C59-048 Matrix: SOIL Lab ID: **Received Date:** 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 10:46:53 PM	19539
EPA METHOD 8015D: DIESEL RAN	EPA METHOD 8015D: DIESEL RANGE ORGANICS					t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/31/2015 5:34:36 PM	19470
Surr: DNOP	92.5	57.9-140	%REC	1	5/31/2015 5:34:36 PM	19470
EPA METHOD 8015D: GASOLINE R	RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/2/2015 2:10:10 AM	19463
Surr: BFB	94.4	75.4-113	%REC	1	6/2/2015 2:10:10 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 2:23:16 PM	19463
Toluene	ND	0.049	mg/Kg	1	5/31/2015 2:23:16 PM	19463
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 2:23:16 PM	19463
Xylenes, Total	ND	0.098	mg/Kg	1	5/31/2015 2:23:16 PM	19463
Surr: 4-Bromofluorobenzene	80.3	80-120	%REC	1	5/31/2015 2:23:16 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
 - Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 12 2.5-3.5' RBD

Project: Red Bluff Draw
 Collection Date: 5/27/2015 12:40:00 PM

 Lab ID: 1505C59-049
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 10:59:17 PM	19539
EPA METHOD 8015D: DIESEL RAN	EPA METHOD 8015D: DIESEL RANGE ORGANICS					t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 6:02:38 PM	19470
Surr: DNOP	95.7	57.9-140	%REC	1	5/31/2015 6:02:38 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 1:20:25 PM	19463
Surr: BFB	90.7	75.4-113	%REC	1	6/2/2015 1:20:25 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/2/2015 1:20:25 PM	19463
Toluene	ND	0.050	mg/Kg	1	6/2/2015 1:20:25 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	6/2/2015 1:20:25 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	6/2/2015 1:20:25 PM	19463
Surr: 4-Bromofluorobenzene	98.9	80-120	%REC	1	6/2/2015 1:20:25 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- Page 49 of 76
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 13 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:25:00 PM

 Lab ID:
 1505C59-050
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 11:11:42 PM	19539
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analyst	: JME
Diesel Range Organics (DRO)	13	9.7	mg/Kg	1	5/31/2015 6:30:49 PM	19470
Surr: DNOP	102	57.9-140	%REC	1	5/31/2015 6:30:49 PM	19470
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 2:38:50 AM	19463
Surr: BFB	94.2	75.4-113	%REC	1	6/2/2015 2:38:50 AM	19463
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 3:13:32 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 3:13:32 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 3:13:32 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 3:13:32 PM	19463
Surr: 4-Bromofluorobenzene	81.5	80-120	%REC	1	5/31/2015 3:13:32 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 50 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 13 .5-1.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 1:25:00 PM 1505C59-051 Matrix: SOIL **Received Date:** 5/29/2015 9:08:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	:: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 11:24:07 PM	19539
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 8:13:44 PM	19470
Surr: DNOP	83.3	57.9-140	%REC	1	5/30/2015 8:13:44 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 3:07:32 AM	19463
Surr: BFB	93.2	75.4-113	%REC	1	6/2/2015 3:07:32 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 5:19:25 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 5:19:25 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 5:19:25 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 5:19:25 PM	19463
Surr: 4-Bromofluorobenzene	88.1	80-120	%REC	1	5/31/2015 5:19:25 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 13 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:25:00 PM

 Lab ID:
 1505C59-052
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	19	7.5	mg/Kg	5	6/3/2015 11:52:03 AM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 8:35:19 PM	19470
Surr: DNOP	95.5	57.9-140	%REC	1	5/30/2015 8:35:19 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/31/2015 5:44:38 PM	19463
Surr: BFB	77.7	75.4-113	%REC	1	5/31/2015 5:44:38 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 5:44:38 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 5:44:38 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 5:44:38 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 5:44:38 PM	19463
Surr: 4-Bromofluorobenzene	89.8	80-120	%REC	1	5/31/2015 5:44:38 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 14 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:35:00 PM

 Lab ID:
 1505C59-053
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 12:04:28 PM	19539
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 8:56:57 PM	19470
Surr: DNOP	89.0	57.9-140	%REC	1	5/30/2015 8:56:57 PM	19470
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 3:36:09 AM	19463
Surr: BFB	92.4	75.4-113	%REC	1	6/2/2015 3:36:09 AM	19463
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 6:09:40 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 6:09:40 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 6:09:40 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 6:09:40 PM	19463
Surr: 4-Bromofluorobenzene	85.8	80-120	%REC	1	5/31/2015 6:09:40 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1505C59 Date Reported: 6/9/2015

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Soil 14 .5-1.5' RBD **CLIENT:** GL Environmental Inc

Project: Red Bluff Draw **Collection Date:** 5/27/2015 1:35:00 PM 1505C59-054 Matrix: SOIL Lab ID: Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	64	7.5	mg/Kg	5	6/3/2015 12:16:53 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	5/30/2015 9:18:28 PM	19470
Surr: DNOP	99.3	57.9-140	%REC	1	5/30/2015 9:18:28 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 1:49:11 PM	19463
Surr: BFB	89.2	75.4-113	%REC	1	6/2/2015 1:49:11 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/2/2015 1:49:11 PM	19463
Toluene	ND	0.050	mg/Kg	1	6/2/2015 1:49:11 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	6/2/2015 1:49:11 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	6/2/2015 1:49:11 PM	19463
Surr: 4-Bromofluorobenzene	94.6	80-120	%REC	1	6/2/2015 1:49:11 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 14 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:35:00 PM

 Lab ID:
 1505C59-055
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	69	7.5	mg/Kg	5	6/3/2015 12:29:19 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 9:40:02 PM	19470
Surr: DNOP	102	57.9-140	%REC	1	5/30/2015 9:40:02 PM	19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/31/2015 7:00:03 PM	19463
Surr: BFB	76.7	75.4-113	%REC	1	5/31/2015 7:00:03 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 7:00:03 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 7:00:03 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 7:00:03 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 7:00:03 PM	19463
Surr: 4-Bromofluorobenzene	82.0	80-120	%REC	1	5/31/2015 7:00:03 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 55 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 14 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:35:00 PM

 Lab ID:
 1505C59-056
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	99	7.5	mg/Kg	5	6/3/2015 12:41:44 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 10:01:37 PM	<i>l</i> 19470
Surr: DNOP	97.8	57.9-140	%REC	1	5/30/2015 10:01:37 PN	<i>l</i> 19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 2:17:53 PM	19463
Surr: BFB	91.3	75.4-113	%REC	1	6/2/2015 2:17:53 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/2/2015 2:17:53 PM	19463
Toluene	ND	0.050	mg/Kg	1	6/2/2015 2:17:53 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	6/2/2015 2:17:53 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	6/2/2015 2:17:53 PM	19463
Surr: 4-Bromofluorobenzene	99.1	80-120	%REC	1	6/2/2015 2:17:53 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 14 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:35:00 PM

 Lab ID:
 1505C59-057
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	120	7.5	mg/Kg	5	6/3/2015 12:54:09 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	5/30/2015 10:23:11 PN	1 19470
Surr: DNOP	102	57.9-140	%REC	1	5/30/2015 10:23:11 PN	1 19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	5/31/2015 7:50:12 PM	19463
Surr: BFB	77.1	75.4-113	%REC	1	5/31/2015 7:50:12 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	5/31/2015 7:50:12 PM	19463
Toluene	ND	0.049	mg/Kg	1	5/31/2015 7:50:12 PM	19463
Ethylbenzene	ND	0.049	mg/Kg	1	5/31/2015 7:50:12 PM	19463
Xylenes, Total	ND	0.097	mg/Kg	1	5/31/2015 7:50:12 PM	19463
Surr: 4-Bromofluorobenzene	86.4	80-120	%REC	1	5/31/2015 7:50:12 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit D
 - P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 15 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:00:00 PM

 Lab ID:
 1505C59-058
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 1:06:34 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	5/30/2015 10:44:36 PM	M 19470
Surr: DNOP	110	57.9-140	%REC	1	5/30/2015 10:44:36 PM	M 19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 4:04:53 AM	19463
Surr: BFB	91.8	75.4-113	%REC	1	6/2/2015 4:04:53 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 8:15:32 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 8:15:32 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 8:15:32 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 8:15:32 PM	19463
Surr: 4-Bromofluorobenzene	82.3	80-120	%REC	1	5/31/2015 8:15:32 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 15 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:00:00 PM

 Lab ID:
 1505C59-059
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/3/2015 1:18:58 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 11:06:05 PM	И 19470
Surr: DNOP	116	57.9-140	%REC	1	5/30/2015 11:06:05 PM	√ 19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	5/31/2015 8:40:58 PM	19463
Surr: BFB	77.1	75.4-113	%REC	1	5/31/2015 8:40:58 PM	19463
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 8:40:58 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 8:40:58 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 8:40:58 PM	19463
Xylenes, Total	ND	0.10	mg/Kg	1	5/31/2015 8:40:58 PM	19463
Surr: 4-Bromofluorobenzene	84.5	80-120	%REC	1	5/31/2015 8:40:58 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 15 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:00:00 PM

 Lab ID:
 1505C59-060
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	11	7.5	mg/Kg	5	6/3/2015 1:56:11 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 11:27:28 P	M 19470
Surr: DNOP	104	57.9-140	%REC	1	5/30/2015 11:27:28 P	M 19470
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/2/2015 4:33:37 AM	19463
Surr: BFB	91.2	75.4-113	%REC	1	6/2/2015 4:33:37 AM	19463
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.050	mg/Kg	1	5/31/2015 9:06:18 PM	19463
Toluene	ND	0.050	mg/Kg	1	5/31/2015 9:06:18 PM	19463
Ethylbenzene	ND	0.050	mg/Kg	1	5/31/2015 9:06:18 PM	19463
Xylenes, Total	ND	0.099	mg/Kg	1	5/31/2015 9:06:18 PM	19463
Surr: 4-Bromofluorobenzene	82.0	80-120	%REC	1	5/31/2015 9:06:18 PM	19463

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 60 of 76
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 15 2.5-3.5'

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:00:00 PM

 Lab ID:
 1505C59-061
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	100	7.5	mg/Kg	5	6/3/2015 2:08:36 PM	19539
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/30/2015 11:49:04 PM	1 19471
Surr: DNOP	97.4	57.9-140	%REC	1	5/30/2015 11:49:04 PM	1 19471
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/1/2015 11:47:40 AM	19464
Surr: BFB	92.4	75.4-113	%REC	1	6/1/2015 11:47:40 AM	19464
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/1/2015 11:47:40 AM	19464
Toluene	ND	0.050	mg/Kg	1	6/1/2015 11:47:40 AM	19464
Ethylbenzene	ND	0.050	mg/Kg	1	6/1/2015 11:47:40 AM	19464
Xylenes, Total	ND	0.099	mg/Kg	1	6/1/2015 11:47:40 AM	19464
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/1/2015 11:47:40 AM	19464

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Sample pH Not In Range
- Page 61 of 76
- RL Reporting Detection Limit

P

Lab Order **1505C59**Date Reported: **6/9/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 15 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:00:00 PM

 Lab ID:
 1505C59-062
 Matrix: SOIL
 Received Date: 5/29/2015 9:08:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	380	30	mg/Kg	20	6/5/2015 11:36:32 PM	19539
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: JME
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	5/31/2015 12:53:09 AM	1 19471
Surr: DNOP	95.9	57.9-140	%REC	1	5/31/2015 12:53:09 AM	1 19471
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/1/2015 2:40:19 PM	19464
Surr: BFB	91.8	75.4-113	%REC	1	6/1/2015 2:40:19 PM	19464
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/1/2015 2:40:19 PM	19464
Toluene	ND	0.049	mg/Kg	1	6/1/2015 2:40:19 PM	19464
Ethylbenzene	ND	0.049	mg/Kg	1	6/1/2015 2:40:19 PM	19464
Xylenes, Total	ND	0.098	mg/Kg	1	6/1/2015 2:40:19 PM	19464
Surr: 4-Bromofluorobenzene	99.7	80-120	%REC	1	6/1/2015 2:40:19 PM	19464

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: Project:		Environmental Inc Bluff Draw					
Sample ID	MB-19484	SampType: MBLK	Tes	tCode: EPA Metho	d 300.0: Anions		
Client ID:	PBS	Batch ID: 19484	R	RunNo: 26529			
Prep Date:	6/1/2015	Analysis Date: 6/1/2015	S	SeqNo: 788531	Units: mg/Kg		
Analyte			lue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		ND 1.5					
Sample ID	LCS-19484	SampType: LCS	Tes	tCode: EPA Metho	d 300.0: Anions		
Client ID:	LCSS	Batch ID: 19484	R	RunNo: 26529			
Prep Date:	6/1/2015	Analysis Date: 6/1/2015	S	SeqNo: 788532	Units: mg/Kg		
Analyte		Result PQL SPK va	alue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		14 1.5 15	5.00 0	91.7 90	110		
Sample ID	MB-19495	SampType: MBLK	Tes	tCode: EPA Method	d 300.0: Anions		
Client ID:	PBS	Batch ID: 19495	R	RunNo: 26529			
Prep Date:	6/1/2015	Analysis Date: 6/1/2015	S	SeqNo: 789176	Units: mg/Kg		
Analyte		Result PQL SPK va	lue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		ND 1.5					
Sample ID	LCS-19495	SampType: LCS	Tes	tCode: EPA Metho	d 300.0: Anions		
Client ID:	LCSS	Batch ID: 19495	R	RunNo: 26529			
Prep Date:	6/1/2015	Analysis Date: 6/1/2015	S	SeqNo: 789177	Units: mg/Kg		
Analyte		Result PQL SPK va	lue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		14 1.5 15	5.00 0	93.3 90	110		
Sample ID	MB-19507	SampType: MBLK	Tes	tCode: EPA Method	d 300.0: Anions		
Client ID:	PBS	Batch ID: 19507	R	RunNo: 26569			
Prep Date:	6/2/2015	Analysis Date: 6/2/2015	S	SeqNo: 790563	Units: mg/Kg		
Analyte		Result PQL SPK va	lue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		ND 1.5					
Sample ID	LCS-19507	SampType: LCS	Tes	tCode: EPA Method	d 300.0: Anions		
Client ID:	LCSS	Batch ID: 19507	R	RunNo: 26569			
Prep Date:	6/2/2015	Analysis Date: 6/2/2015	S	SeqNo: 790564	Units: mg/Kg		
Analyte		Result PQL SPK va	alue SPK Ref Val	%REC LowLimit	HighLimit %RF	PD RPDLimit	Qual
Chloride		14 1.5 15	0.00	93.2 90	110		

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19539 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 19539 RunNo: 26612

Prep Date: 6/3/2015 Analysis Date: 6/3/2015 SeqNo: 792250 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-19539 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 19539 RunNo: 26612

Prep Date: 6/3/2015 Analysis Date: 6/3/2015 SeqNo: 792251 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 91.5 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1505C59**

09-Jun-15

Project:	Red E	Bluff Draw						
Sample ID	MB-19470	SampType: MBLK	TestCode	EPA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch ID: 19470	RunNo	26506				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787714	Units: mg/k	ζg		
Analyte		Result PQL SPK value	SPK Ref Val %RE	C LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND 10						
Surr: DNOP		8.2 10.00	82	2.2 57.9	140			
Sample ID	MB-19468	SampType: MBLK	TestCode	EPA Method	1 8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch ID: 19468	RunNo	26507				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787718	Units: mg/k	(g		
Analyte		Result PQL SPK value	SPK Ref Val %RE	C LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND 10		24 57.0	4.40			
Surr: DNOP		10 10.00	1	01 57.9	140			
Sample ID	LCS-19468	SampType: LCS	TestCode	EPA Method	1 8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID: 19468	RunNo	26507				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787719	Units: mg/k	(g		
Analyte			SPK Ref Val %RE			%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	52 10 50.00		03 67.8				
Surr: DNOP		5.4 5.000	1	D7 57.9	140			
Sample ID	LCS-19469	SampType: LCS	TestCode	EPA Method	1 8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID: 19469	RunNo	26507				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787720	Units: mg/k	(g		
Analyte		Result PQL SPK value	SPK Ref Val %RE	C LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	55 10 50.00	_	09 67.8				
Surr: DNOP		5.5 5.000	1	10 57.9	140			
Sample ID	MB-19469	SampType: MBLK	TestCode	EPA Method	1 8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch ID: 19469	RunNo	26507				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787721	Units: mg/k	(g		
Analyte		Result PQL SPK value	SPK Ref Val %RE	C LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	ND 10						
Surr: DNOP		9.9 10.00	99	57.9	140			
Sample ID	LCS-19470	SampType: LCS	TestCode	EPA Method	l 8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch ID: 19470	RunNo	26506				
Prep Date:	5/29/2015	Analysis Date: 5/30/2015	SeqNo	787723	Units: mg/h	ζg		
Analyte		Result PQL SPK value	SPK Ref Val %RE	C LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1505C59**

09-Jun-15

Project:	Red Bluff	f Draw									
Sample ID	LCS-19470	SampTy	oe: LC	s	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch I	D: 19	470	R	RunNo: 2	6506				
Prep Date:	5/29/2015	Analysis Da	te: 5 /	/30/2015	S	SeqNo: 7	87723	Units: mg/k	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	45	10	50.00	0	89.4	67.8	130			
Surr: DNOP		4.5		5.000		90.7	57.9	140			
Sample ID	MB-19471	SampTy	oe: ME	BLK	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch I	D: 19	471	R	RunNo: 2	6506				
Prep Date:	5/29/2015	Analysis Da	te: 5/	/30/2015	S	SeqNo: 7	87834	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	ND	10								
Surr: DNOP		8.9		10.00		88.6	57.9	140			
Sample ID	LCS-19471	SampTy	pe: LC	cs	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch I	D: 19	471	R	RunNo: 2	6506				
Prep Date:	5/29/2015	Analysis Da	te: 5/	/30/2015	S	SeqNo: 7	87835	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	43	10	50.00	0	86.4	67.8	130			
Surr: DNOP		4.3		5.000		86.5	57.9	140			
Sample ID	1505C59-061AMS	SampTyp	pe: M \$	S	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	Soil 15 2.5-3.5'	Batch I	D: 19	471	R	RunNo: 2	6506				
Prep Date:	5/29/2015	Analysis Da	te: 5 /	/31/2015	S	SeqNo: 7	87867	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	45	10	49.75	0	89.7	42.3	146			
Surr: DNOP		4.7		4.975		95.2	57.9	140			
Sample ID	1505C59-061AMS	D SampTyր	ре: М \$	SD	Test	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	Soil 15 2.5-3.5'	Batch I	D: 19	471	R	RunNo: 2	6506				
Prep Date:	5/29/2015	Analysis Da	te: 5 /	/31/2015	S	SeqNo: 7	87868	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	44	9.9	49.46	0	88.2	42.3	146	2.28	28.9	
Surr: DNOP		4.7		4.946		94.1	57.9	140	0	0	
Sample ID					Too	tCode: FI	PA Method	8015D: Dies	el Range ()rganics	
'	1505C59-001AMS	SampTyp	pe: IVIS	3	163	loode. Li			ci italige t	or garnos	
Client ID:	1505C59-001AMS Soil 3 05' RBD	SampTyp Batch I				RunNo: 2			er italige t	or guillos	
	Soil 3 05' RBD		D: 19	468	R		6507	Units: mg/h	J	ngumos	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: 1505C59

09-Jun-15

Sample ID	1505C59-001AMS	SamnT	ype: MS	3	Test	Code: FI	PA Method	8015D: Diese	al Range C)rganice	
•	Soil 3 05' RBD	•	уре. М i ID: 19			tunNo: 2		ou isb. Dies	er ivalige C	organics .	
	5/29/2015	Analysis D	_			SeqNo: 7		Units: mg/k	(a		
•	5/29/2015	Allalysis D						•	•		
Analyte	Descrice (DDO)	Result	PQL		SPK Ref Val		LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	Organics (DRO)	54 5.5	10	50.45 5.045	U	108 109	42.3 57.9	146 140			
Sample ID	1505C59-001AMSI	D SampT	ype: M \$	SD	Test	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	Soil 3 05' RBD	Batch	ID: 19	468	R	tunNo: 2	6507				
Prep Date:	5/29/2015	Analysis D	ate: 5/	30/2015	S	eqNo: 7	87997	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	61	9.9	49.36	0	123	42.3	146	10.7	28.9	
Surr: DNOP		5.9		4.936		120	57.9	140	0	0	
Sample ID	1505C59-021AMS	SampT	уре: М\$	6	Test	Code: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	Soil 6 2.5-4.0'	Batch	ID: 19	469	R	tunNo: 2	6507				
Prep Date:	5/29/2015	Analysis D	ate: 5/	31/2015	S	SeqNo: 7	88018	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range C	Organics (DRO)	57	10	50.51	0	114	42.3	146			
Surr: DNOP		5.7		5.051		114	57.9	140			
Sample ID	1505C59-021AMSI	D SampT	ype: M \$	SD	Test	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
	Soil 6 2.5-4.0'	Batch	ID: 19	469	R	tunNo: 2	6507				
Client ID:									(a		
	5/29/2015	Analysis D	ate: 5/	31/2015	S	eqNo: 7	88019	Units: mg/k	vg		
		Analysis D Result	ate: 5/ PQL		SPK Ref Val	eqNo: 7 %REC	88019 LowLimit	Units: mg/k	%RPD	RPDLimit	Qual
Prep Date: Analyte		•				•		•	•	RPDLimit 28.9	Qual
Prep Date: Analyte	5/29/2015	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD		Qual
Prep Date: Analyte Diesel Range C Surr: DNOP	5/29/2015	Result 55 5.8	PQL	SPK value 50.00 5.000	SPK Ref Val 0	%REC 111 116	LowLimit 42.3 57.9	HighLimit 146	%RPD 3.63 0	28.9	Qual
Analyte Diesel Range C Surr: DNOP Sample ID	5/29/2015 Organics (DRO)	Result 55 5.8 SampT	PQL 10	SPK value 50.00 5.000	SPK Ref Val 0	%REC 111 116	LowLimit 42.3 57.9 PA Method	HighLimit 146 140	%RPD 3.63 0	28.9	Qual
Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID:	5/29/2015 Drganics (DRO) 1505C59-041AMS	Result 55 5.8 SampT	PQL 10 Type: M\$	50.00 5.000 5.000	SPK Ref Val 0 Test	%REC 111 116 tCode: E I	42.3 57.9 PA Method	HighLimit 146 140	%RPD 3.63 0	28.9	Qual
Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID:	5/29/2015 Drganics (DRO) 1505C59-041AMS Soil 11 05' RBD	Result 55 5.8 SampT Batch	PQL 10 Type: M\$	SPK value 50.00 5.000 5.000	SPK Ref Val 0 Test	%REC 111 116 Code: El cunNo: 2	42.3 57.9 PA Method	HighLimit 146 140 8015D: Diese	%RPD 3.63 0	28.9	Qual
Prep Date: Analyte Diesel Range C Surr: DNOP Sample ID Client ID: Prep Date: Analyte	5/29/2015 Drganics (DRO) 1505C59-041AMS Soil 11 05' RBD	Result 55 5.8 SampT Batch Analysis D	PQL 10 Type: M\$ n ID: 19 nate: 5 /	SPK value 50.00 5.000 5.000	SPK Ref Val 0 Test R	%REC 111 116 Code: El cunNo: 2	LowLimit 42.3 57.9 PA Method 6507 88040	HighLimit 146 140 8015D: Diese Units: mg/k	%RPD 3.63 0 el Range C	28.9 0 Organics	

Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level.

Batch ID: 19470

Analysis Date: 5/31/2015

Result

Е Value above quantitation range

Client ID: Soil 11 0-.5' RBD

Prep Date: 5/29/2015

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Units: mg/Kg

HighLimit

%RPD

- Holding times for preparation or analysis exceeded Η
- Not Detected at the Reporting Limit

RunNo: 26507

SeqNo: 788041

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Qual

RPDLimit

P Sample pH Not In Range

SPK value SPK Ref Val %REC LowLimit

Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID 1505C59-041AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics

Client ID: Soil 11 0-.5' RBD Batch ID: 19470 RunNo: 26507

Prep Date: 5/29/2015 Analysis Date: 5/31/2015 SeqNo: 788041 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	58	10	50.10	0	115	42.3	146	67.0	28.9	R
Surr: DNOP	4.7		5.010		92.8	57.9	140	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1505C59**

09-Jun-15

Project:	Red Bluf	f Draw									
Sample ID	MB-19461	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	PBS	Batch	n ID: 19	461	R	RunNo: 20	6509				
Prep Date:	5/29/2015	Analysis D	ate: 5	/30/2015	S	SeqNo: 7 8	87776	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	ND	5.0								
Surr: BFB		800		1000		80.3	75.4	113			
Sample ID	LCS-19461	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	n ID: 19	461	R	RunNo: 2	6509				
Prep Date:	5/29/2015	Analysis D	ate: 5 /	/30/2015	S	SeqNo: 7	87777	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	e Organics (GRO)	25	5.0	25.00	0	99.3	64	130			
Surr: BFB		940		1000		93.9	75.4	113			
Sample ID	1505C59-001AMS	SampT	ype: MS	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Soil 3 05' RBD	Batch	n ID: 19	461	R	RunNo: 2	6509				
Prep Date:	5/29/2015	Analysis D	ate: 5	/30/2015	S	SeqNo: 7 8	87780	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	27	4.8	23.90	0	114	47.9	144			
Surr: BFB		860		956.0		89.9	75.4	113			
Sample ID	1505C59-001AMS	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Soil 3 05' RBD	Batch	n ID: 19	461	R	RunNo: 20	6509				
Prep Date:	5/29/2015	Analysis D	ate: 5/	/30/2015	S	SeqNo: 7 8	87781	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	26	4.8	23.90	0	109	47.9	144	4.56	29.9	
Surr: BFB		840		956.0		87.5	75.4	113	0	0	
Sample ID	MB-19462	SampT	уре: МІ	BLK	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	n ID: 19	462	R	RunNo: 2	6512				
Prep Date:	5/29/2015	Analysis D	ate: 5	/31/2015	S	SeqNo: 7	87887	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	e Organics (GRO)	ND	5.0								
Surr: BFB		910		1000		90.6	75.4	113			
Sample ID	LCS-19462	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch	n ID: 19	462	R	RunNo: 2	6512				
Prep Date:	5/29/2015	Analysis D	ate: 5	/31/2015	S	SeqNo: 7	87888	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1505C59**

09-Jun-15

Project:	Red Bluf	f Draw									
Sample ID	LCS-19462	SampT	ype: LC	s	Tes	Code: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 19	462	R	tunNo: 2	6512				
Prep Date:	5/29/2015	Analysis D	ate: 5 /	/31/2015	S	eqNo: 7	87888	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	25 960	5.0	25.00 1000	0	98.5 95.6	64 75.4	130 113			
Sample ID	1505C59-021AMS	SampT	уре: М	S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Soil 6 2.5-4.0'	Batch	ID: 19	462	R	tunNo: 2	6512				
Prep Date:	5/29/2015	Analysis D	ate: 5/	/31/2015	S	eqNo: 7	87890	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	ge Organics (GRO)	23	4.8	23.79	0	98.3	47.9	144			
Surr: BFB		940		951.5		98.8	75.4	113			
Sample ID	1505C59-021AMS	D SampT	ype: M \$	SD	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Soil 6 2.5-4.0'	Batch	ID: 19	462	R	tunNo: 2	6512				
Prep Date:	5/29/2015	Analysis D	ate: 5 /	/31/2015	S	eqNo: 7	87891	Units: mg/F	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	19	4.8	23.76	0	80.7	47.9	144	19.8	29.9	
Surr: BFB		920		950.6		97.2	75.4	113	0	0	
	MB-19463		уре: МІ		Tes			113 8015D: Gas o			
		SampT	ype: MI	BLK			PA Method				
Sample ID Client ID:		SampT	i ID: 19	BLK 463	R	tCode: El	PA Method 6515		oline Rang		
Sample ID Client ID:	PBS	SampT Batch	i ID: 19	BLK 463 /31/2015	R	tCode: El	PA Method 6515	8015D: Gasc	oline Rang		Qual
Sample ID Client ID: Prep Date: Analyte	PBS	SampT Batch Analysis D	n ID: 19 ate: 5 /	BLK 463 /31/2015	R S	tCode: El	PA Method 6515 87965	8015D: Gaso	oline Rang	e	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	PBS 5/29/2015	SampT Batch Analysis D Result ND 780	n ID: 19 Pate: 5 /	BLK 463 /31/2015 SPK value	SPK Ref Val	iCode: El iunNo: 2 ieqNo: 7 %REC 78.0	PA Method 6515 87965 LowLimit 75.4	8015D: Gaso Units: mg/k	oline Rang	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB	PBS 5/29/2015 ge Organics (GRO) LCS-19463	SampT Batch Analysis D Result ND 780 SampT	PQL 5.0	BLK 463 /31/2015 SPK value 1000	SPK Ref Val	iCode: El iunNo: 2 ieqNo: 7 %REC 78.0	PA Method 6515 87965 LowLimit 75.4	8015D: Gaso Units: mg/F HighLimit	oline Rang	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	PBS 5/29/2015 ge Organics (GRO) LCS-19463	SampT Batch Analysis D Result ND 780 SampT	PQL 5.0 Sype: LC 19 1D: 19	BLK 463 /31/2015 SPK value 1000 CS	SPK Ref Val Tes	icode: El iunNo: 2 ieqNo: 7 %REC 78.0	PA Method 6515 87965 LowLimit 75.4 PA Method 6515	8015D: Gaso Units: mg/F HighLimit	Sine Rang SRPD Sline Rang	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID:	PBS 5/29/2015 ge Organics (GRO) LCS-19463 LCSS	SampT Batch Analysis D Result ND 780 SampT Batch	PQL 5.0 Sype: LC 19 1D: 19	BLK 463 /31/2015 SPK value 1000 CS 463 /31/2015	SPK Ref Val Tes	iCode: El iunNo: 2 ieqNo: 7 %REC 78.0 iCode: El	PA Method 6515 87965 LowLimit 75.4 PA Method 6515	8015D: Gaso Units: mg/F HighLimit 113 8015D: Gaso	Sine Rang SRPD Sline Rang	e RPDLimit	Qual
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte	PBS 5/29/2015 ge Organics (GRO) LCS-19463 LCSS	SampT Batch Analysis D Result ND 780 SampT Batch Analysis D	PQL 5.0 Fype: LC 19 Pate: 5,0 PQL 5.0	BLK 463 /31/2015 SPK value 1000 CS 463 /31/2015	SPK Ref Val Tes:	tCode: El tunNo: 2 teqNo: 7: %REC 78.0 tCode: El tunNo: 2 teqNo: 7:	PA Method 6515 87965 LowLimit 75.4 PA Method 6515 87966	8015D: Gaso Units: mg/k HighLimit 113 8015D: Gaso Units: mg/k	oline Rang Kg	e RPDLimit e	
Sample ID Client ID: Prep Date: Analyte Gasoline Ranç Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Ranç Surr: BFB	PBS 5/29/2015 ge Organics (GRO) LCS-19463 LCSS 5/29/2015	SampT Batch Analysis D Result ND 780 SampT Batch Analysis D Result 24 910	PQL 5.0 PQL 19 PQL 19 PQL 19 PQL 19 PQL 19 PQL	BLK 463 /31/2015 SPK value 1000 CS 463 /31/2015 SPK value 25.00 1000	SPK Ref Val Tes: SPK Ref Val O	78.0 Code: El SeqNo: 7 78.0 Code: El SunNo: 2 SeqNo: 7 %REC 95.9 91.3	PA Method 6515 87965 LowLimit 75.4 PA Method 6515 87966 LowLimit 64 75.4	8015D: Gaso Units: mg/k HighLimit 113 8015D: Gaso Units: mg/k HighLimit 130	WRPD Oline Rang Oline Rang WRPD	e RPDLimit e RPDLimit	
Sample ID Client ID: Prep Date: Analyte Gasoline Ranç Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Ranç Surr: BFB	PBS	SampT Batch Analysis D Result ND 780 SampT Batch Analysis D Result 24 910 SampT	PQL 5.0 PQL 5.0 PQL 5.0	BLK 463 /31/2015 SPK value 1000 CS 463 /31/2015 SPK value 25.00 1000	SPK Ref Val Tes: SPK Ref Val 0	78.0 Code: El SeqNo: 7 78.0 Code: El SunNo: 2 SeqNo: 7 %REC 95.9 91.3	PA Method 6515 87965 LowLimit 75.4 PA Method 6515 87966 LowLimit 64 75.4	8015D: Gaso Units: mg/k HighLimit 113 8015D: Gaso Units: mg/k HighLimit 130 113	WRPD Oline Rang Oline Rang WRPD	e RPDLimit e RPDLimit	
Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Client ID: Prep Date: Analyte Gasoline Rang Surr: BFB Sample ID Sample ID	PBS 5/29/2015 ge Organics (GRO) LCS-19463 LCSS 5/29/2015 ge Organics (GRO) 1505C59-042AMS Soil 11 .5-1.5' RBI	SampT Batch Analysis D Result ND 780 SampT Batch Analysis D Result 24 910 SampT	PQL 5.0	BLK 463 /31/2015 SPK value 1000 CS 463 /31/2015 SPK value 25.00 1000	SPK Ref Val Tes SPK Ref Val 0 Tess	tCode: El tunNo: 2 teqNo: 7: %REC 78.0 tCode: El tunNo: 2 teqNo: 7: %REC 95.9 91.3	PA Method 6515 87965 LowLimit 75.4 PA Method 6515 87966 LowLimit 64 75.4 PA Method 6515	8015D: Gaso Units: mg/k HighLimit 113 8015D: Gaso Units: mg/k HighLimit 130 113	oline Rang %RPD oline Rang %RPD	e RPDLimit e RPDLimit	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1505C59**

09-Jun-15

Project:	Red Bluf	f Draw								
Sample ID	1505C59-042AMS	SampType	e: MS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	Soil 11 .5-1.5' RBI	D Batch ID	: 19463	F	RunNo: 26	6515				
Prep Date:	5/29/2015	Analysis Date	: 5/31/2015	S	SeqNo: 78	37969	Units: mg/K	(g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	25	4.9 24.70	0	102	47.9	144			
Surr: BFB		820	988.1		83.5	75.4	113			
Sample ID	1505C59-042AMS	D SampType	e: MSD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	Soil 11 .5-1.5' RBI	D Batch ID	: 19463	F	RunNo: 26	6515				
Prep Date:	5/29/2015	Analysis Date	5/31/2015	S	SeqNo: 78	37970	Units: mg/K	(g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	26	4.9 24.65	0	104	47.9	144	1.86	29.9	
Surr: BFB		810	986.2		82.3	75.4	113	0	0	
Sample ID	MB-19464	SampType	: MBLK	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	PBS	Batch ID	: 19464	F	RunNo: 26	6530				
Prep Date:	5/29/2015	Analysis Date	6/1/2015	8	SeqNo: 78	38849	Units: mg/K	ζg		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	ND	5.0							
Surr: BFB		910	1000		91.0	75.4	113			
Sample ID	LCS-19464	SampType	e: LCS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	LCSS	Batch ID	: 19464	F	RunNo: 26	6530				
Prep Date:	5/29/2015	Analysis Date	: 6/1/2015	8	SeqNo: 78	38850	Units: mg/K	(g		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	e Organics (GRO)	25	5.0 25.00	0	100	64	130			
Surr: BFB		980	1000		97.5	75.4	113			
Sample ID	1505C59-061AMS	SampType	e: MS	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	Soil 15 2.5-3.5'	Batch ID	: 19464	F	RunNo: 26	6530				
Prep Date:	5/29/2015	Analysis Date	6/1/2015	8	SeqNo: 78	38852	Units: mg/K	ζg		
Analyte		Result P	QL SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	e Organics (GRO)	22	5.0 24.88	0	86.7	47.9	144			
Surr: BFB		1000	995.0		101	75.4	113			
Sample ID	1505C59-061AMS	D SampType	e: MSD	Tes	tCode: EF	PA Method	8015D: Gaso	line Rang	е	
Client ID:	Soil 15 2.5-3.5'	Batch ID	: 19464	F	RunNo: 26	6530				
Prep Date:	5/29/2015	Analysis Date	6/1/2015	S	SeqNo: 78	38853	Units: mg/K	(g		
l										

Qualifiers:

Analyte

* Value exceeds Maximum Contaminant Level.

Result

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

HighLimit

%RPD

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

SPK value SPK Ref Val %REC LowLimit

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Qual

RPDLimit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID 1505C59-061AMSD SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: Soil 15 2.5-3.5' Batch ID: 19464 RunNo: 26530

Prep Date: 5/29/2015 Analysis Date: 6/1/2015 SeqNo: 788853 Units: mg/Kg

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.9	24.73	0	84.5	47.9	144	3.12	29.9	
Surr: BFB	990		989.1		99.9	75.4	113	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19461 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 19461 RunNo: 26509 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787804 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 98.3 80 120

Sample ID LCS-19461 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 19461 Client ID: **LCSS** RunNo: 26509 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787805 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual 0.050 1.000 O 109 76.6 128 Benzene 1.1 Toluene 1.1 0.050 1.000 0 111 75 124 Ethylbenzene 0.050 0 107 79.5 126 1.1 1.000 Xylenes, Total 3.1 0.10 3.000 0 105 78.8 124 Surr: 4-Bromofluorobenzene 1.0 1.000 101 80 120

Sample ID 1505C59-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles RunNo: 26509 Client ID: Soil 3 .5-1.5' RBD Batch ID: 19461 5/29/2015 Analysis Date: 5/30/2015 SeaNo: 787808 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.1 0.048 0.9560 116 69.2 126 Λ Toluene 1.2 0.048 0.9560 0.005731 120 65.6 128 65.5 0.048 0.009456 113 138 Ethylbenzene 1.1 0.9560 Xylenes, Total 3.2 0.096 2.868 0.01652 110 63 139

0.9560

0.91

Sample ID 1505C59-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Soil 3 .5-1.5' RBD Batch ID: 19461 RunNo: 26509 Prep Date: 5/29/2015 Analysis Date: 5/30/2015 SeqNo: 787809 Units: mg/Kg %REC %RPD **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit Qual 1.2 0.048 0.9560 123 69.2 126 6.05 18.5 Benzene Toluene 1.2 0.048 0.9560 0.005731 123 65.6 128 2.31 20.6 Ethylbenzene 1.1 0.048 0.9560 0.009456 118 65.5 138 4.74 20.1 Xylenes, Total 3.3 0.096 2.868 0.01652 116 63 139 21.1 4.71 Surr: 4-Bromofluorobenzene 0.75 0.9560 78.2 80 120 0 S Λ

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

Surr: 4-Bromofluorobenzene

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

95.3

80

120

- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client:	GL Environmental Inc
Project:	Red Bluff Draw

Sample ID MB-19462 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 19462 RunNo: 26512 5/29/2015 Analysis Date: 5/31/2015 SeqNo: 787938 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.98 1.000 98.5 80 120

Sample ID LCS-19462 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 19462 Client ID: **LCSS** RunNo: 26512 Prep Date: 5/29/2015 Analysis Date: 5/31/2015 SeqNo: 787939 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual 1.0 0.050 1.000 O 103 76.6 128 Benzene Toluene 1.0 0.050 1.000 0 103 75 124 Ethylbenzene 0.050 0 103 79.5 126 1.0 1.000 Xylenes, Total 3.1 0.10 3.000 0 102 78.8 124 Surr: 4-Bromofluorobenzene 1.0 1.000 104 80 120

Sample ID 1505C59-022AMS SampType: MS TestCode: EPA Method 8021B: Volatiles RunNo: 26512 Client ID: Soil 7 0-.5' RBD Batch ID: 19462 5/29/2015 Analysis Date: 5/31/2015 SeaNo: 787942 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.98 0.049 0.9843 99.7 69.2 126 Λ Toluene 0.96 0.049 0.9843 0 97.8 65.6 128 65.5 0.9843 0 99.6 138 Ethylbenzene 0.98 0.049 Xylenes, Total 2.9 0.098 2.953 0 99.2 63 139 Surr: 4-Bromofluorobenzene 0.9843 80 1.0 106 120

Sample ID 1505C59-022AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Soil 7 0-.5' RBD Batch ID: 19462 RunNo: 26512 Prep Date: 5/29/2015 Analysis Date: 5/31/2015 SeqNo: 787943 Units: mg/Kg %REC **RPDLimit** Analyte Result **PQL** SPK value SPK Ref Val LowLimit HighLimit %RPD Qual 0.98 0.049 0.9833 0 99.9 69.2 126 0.136 18.5 Benzene Toluene 0.97 0.049 0.9833 0 98.5 65.6 128 0.620 20.6 Ethylbenzene 1.0 0.049 0.9833 0 103 65.5 138 3.10 20.1 Xylenes, Total 3.0 0.098 2.950 0 102 63 139 2.26 21.1 Surr: 4-Bromofluorobenzene 0.9833 105 80 120 0 0 1.0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1505C59

09-Jun-15

Client: GL Environmental Inc **Project:** Red Bluff Draw

Sample ID MB-19463 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: 19463 RunNo: 26515

Prep Date: 5/29/2015 Analysis Date: 5/31/2015 SeqNo: 788054 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 0.050 Benzene ND Toluene ND 0.050 0.050 Ethylbenzene ND

Xylenes, Total ND 0.10

Surr: 4-Bromofluorobenzene 0.91 1.000 91.5 80 120

Sample ID LCS-19463 SampType: LCS TestCode: EPA Method 8021B: Volatiles Client ID: LCSS Batch ID: 19463 RunNo: 26515 Analysis Date: 5/31/2015 SeqNo: 788055 Prep Date: 5/29/2015 Units: mg/Kg Analyte **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual 1.1 0.050 1.000 0 110 76.6 128 Benzene Toluene 1.1 0.050 1.000 0 111 75 124 Ethylbenzene 0.050 1.000 0 107 79.5 126 1.1 105 Xylenes, Total 3.1 0.10 3.000 0 78.8 124 97.3 Surr: 4-Bromofluorobenzene 0.97 1.000 80 120

Sample ID 1505C59-041AMS SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: Soil 11 0-.5' RBD Batch ID: 19463 RunNo: 26515

Prep Date: 5/29/2015	Analysis [Analysis Date: 5/31/2015			SeqNo: 788057 Units: m				ıg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Benzene	1.0	0.050	0.9970	0	104	69.2	126					
Toluene	1.1	0.050	0.9970	0	110	65.6	128					
Ethylbenzene	1.1	0.050	0.9970	0.009181	106	65.5	138					
Xylenes, Total	3.1	0.10	2.991	0	104	63	139					
Surr: 4-Bromofluorobenzene	0.91		0.9970		91.6	80	120					

Sample ID 1505C59-041AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: Soil 11 0-.5' RBD Batch ID: 19463 RunNo: 26515

CHOIR ID: CON IT C IO RED	Bato		100	•		0010				
Prep Date: 5/29/2015	Analysis D	ate: 5/	31/2015	S	SeqNo: 7	88058	Units: mg/K	(g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.1	0.050	0.9960	0	108	69.2	126	3.48	18.5	
Toluene	1.1	0.050	0.9960	0	111	65.6	128	0.271	20.6	
Ethylbenzene	1.1	0.050	0.9960	0.009181	106	65.5	138	0.359	20.1	
Xylenes, Total	3.1	0.10	2.988	0	105	63	139	0.589	21.1	
Surr: 4-Bromofluorobenzene	0.98		0.9960		98.2	80	120	0	0	

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1505C59**

09-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19464 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 19464 RunNo: 26530 Prep Date: 5/29/2015 Analysis Date: 6/1/2015 SeqNo: 788884 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID LCS-19464 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 19464 Client ID: **LCSS** RunNo: 26530 Prep Date: 5/29/2015 Analysis Date: 6/1/2015 SeqNo: 788885 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte LowLimit Qual 1.0 0.050 1.000 O 105 76.6 128 Benzene Toluene 1.0 0.050 1.000 0 103 75 124 Ethylbenzene 0.050 0 105 79.5 126 1.0 1.000 Xylenes, Total 3.1 0.10 3.000 0 103 78.8 124 Surr: 4-Bromofluorobenzene 1.1 1.000 106 80 120

Sample ID 1505C59-062AMS SampType: MS TestCode: EPA Method 8021B: Volatiles RunNo: 26530 Client ID: Soil 15 3.5-4.0' RBD Batch ID: 19464 5/29/2015 Analysis Date: 6/1/2015 SeaNo: 788893 Prep Date: Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 0.95 0.050 0.9911 95.4 69.2 126 Λ Toluene 0.95 0.050 0.9911 0 96.3 65.6 128 65.5 0.98 0.050 0.9911 0 99.3 138 Ethylbenzene Xylenes, Total 2.9 0.099 2.973 0 98.4 63 139

0.9911

1.1

Sample ID 1505C59-062AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: Batch ID: 19464 RunNo: 26530 Soil 15 3.5-4.0' RBD Prep Date: 5/29/2015 Analysis Date: 6/1/2015 SeqNo: 788894 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result **PQL** LowLimit HighLimit %RPD Qual 0.90 0.050 1.000 0 89.9 69.2 126 5.04 18.5 Benzene Toluene 0.90 0.050 1.000 0 89.6 65.6 128 6.31 20.6 Ethylbenzene 0.96 0.050 1.000 0 95.7 65.5 138 2 75 20.1 Xylenes, Total 2.8 0.10 3.000 0 94.5 63 139 3.09 21.1 Surr: 4-Bromofluorobenzene 1.000 80 120 0 0 1.1 111

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range

Surr: 4-Bromofluorobenzene

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

109

80

120

- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquergue, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: GL Environmental Inc Work Order Num	ber: 1505C59		RcptNo:	1
Received by/date: 4T05/29/15				
Logged By: Anne Thorne 5/29/2015 9:08:00	AM	anne Stran	_	
Completed By: Anne Thorne 5/29/2015		anne Am	_	
Reviewed By: 05/29/15		Civile Join		
Chain of Custody				
1. Custody seals intact on sample bottles?	Yes	No 🗆	Not Present 🗹	
2. Is Chain of Custody complete?	Yes 🗹	No 🗌	Not Present	
3. How was the sample delivered?	<u>FedEx</u>			
<u>Log In</u>			i	
4. Was an attempt made to cool the samples?	Yes 🔽	No 🗆	NA \square	
5. Were all samples received at a temperature of >0° C to 6.0°C	Yes 🗹	No 🗆	na 🗆	
6. Sample(s) in proper container(s)?	Yes 🗌	No 🗹		
7. Sufficient sample volume for indicated test(s)?	Yes 🗸	No 🗆		
8. Are samples (except VOA and ONG) properly preserved?	Yes 🗹	No 🗌	*	
9. Was preservative added to bottles?	Yes 🗌	No 🗹	NA \square	
10.VOA vials have zero headspace?	Yes	No 🗆	No VOA Vials ⊻	
11. Were any sample containers received broken?	Yes	No 🗹		
11. VVOID any Sample Containers received brokens	105	—	# of preserved bottles checked	
12. Does paperwork match bottle labels?	Yes 🗹	No 🗆	for pH:	
(Note discrepancies on chain of custody)			(<2 or Adjusted?	>12 unless noted)
13. Are matrices correctly identified on Chain of Custody?	Yes 🗸	No ∐	Adjusted:	
14. Is it clear what analyses were requested?	Yes 🗹	No ∐	Checked by:	
15. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes 🔽	No 📙	Checked by.	
Special Handling (if applicable)				
16. Was client notified of all discrepancies with this order?	Yes 🗌	No 🗆	NA 🗹	
Person Notified: Date	e T			
By Whom: Via:		Phone Fax	In Person	
Regarding:				
Client Instructions:				
17. Additional remarks:		The second section is a second		J
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GL ENVIRONMENTAL	Project Name:	www.hallenvironmental.com
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mail or Fax#: 9 / MaTIO / Jash . Ne-T	Project Manager:	eO [⊄])
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HALL ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	4901 Hawkins NE - Albuquerque, NM 87109		Analys	PO4)	SIMS)	(1.81 (1.40 0728 (00,80 (A(od 50 00 or btals od 50 00 or od 50 00 od 50 00 00 od 50 00 00 od 50 00 od 50 00 od 50 00 od 50 00	TM + X; 180158 1 (Methors) 2 (Methors) 3 (Methors) 4 (831) 6 (831) 7 (80) 9 (Semboles) 0 (Semboles)	497 1794 808 808 828 828	ic	×.	× ×	X.	× ×	*	*	X		y,		- X X X	Remarks: Xew soil 5 please composite well	Time: Relinquished by: Received by: Date Time Be Received by: Time: Relinquished by: Received by: Rec
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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 12, 2015

Matt Lane

GL Environmental Inc

PO Box 1746

Las Vegas, NM 87701 TEL: (505) 454-0830

FAX

RE: Red Bluff Draw OrderNo.: 1506057

Dear Matt Lane:

Hall Environmental Analysis Laboratory received 36 sample(s) on 6/2/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1506057

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 4 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:30:00 PM

 Lab ID:
 1506057-001
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	54	7.5	mg/Kg	5	6/5/2015 8:18:00 PM	19567
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2015 11:53:40 AM	19508
Surr: DNOP	91.6	57.9-140	%REC	1	6/4/2015 11:53:40 AM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 10:25:05 AM	19498
Surr: BFB	87.8	75.4-113	%REC	1	6/3/2015 10:25:05 AM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 10:25:05 AM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 10:25:05 AM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 10:25:05 AM	19498
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2015 10:25:05 AM	19498
Surr: 4-Bromofluorobenzene	92.8	80-120	%REC	1	6/3/2015 10:25:05 AM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 44

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 4 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 1:30:00 PM

 Lab ID:
 1506057-002
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	130	30	mg/Kg	20	6/5/2015 8:30:24 PM	19567
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2015 12:57:48 PM	19508
Surr: DNOP	85.6	57.9-140	%REC	1	6/4/2015 12:57:48 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 11:51:20 AM	19498
Surr: BFB	86.4	75.4-113	%REC	1	6/3/2015 11:51:20 AM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 11:51:20 AM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 11:51:20 AM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 11:51:20 AM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 11:51:20 AM	19498
Surr: 4-Bromofluorobenzene	91.4	80-120	%REC	1	6/3/2015 11:51:20 AM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

ed at the Reporting Limit Page 2 of 44

- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 16 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:20:00 PM

 Lab ID:
 1506057-003
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	7.7	7.5	mg/Kg	5	6/5/2015 8:42:49 PM	19567
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/4/2015 1:19:11 PM	19508
Surr: DNOP	117	57.9-140	%REC	1	6/4/2015 1:19:11 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 1:17:46 PM	19498
Surr: BFB	97.4	75.4-113	%REC	1	6/3/2015 1:17:46 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 1:17:46 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 1:17:46 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 1:17:46 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 1:17:46 PM	19498
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	6/3/2015 1:17:46 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 3 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506057 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 16 .5-1.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 2:20:00 PM 1506057-004 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/8/2015 9:49:21 PM	19567
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2015 1:40:37 PM	19508
Surr: DNOP	137	57.9-140	%REC	1	6/4/2015 1:40:37 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 1:46:31 PM	19498
Surr: BFB	88.2	75.4-113	%REC	1	6/3/2015 1:46:31 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 1:46:31 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 1:46:31 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 1:46:31 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 1:46:31 PM	19498
Surr: 4-Bromofluorobenzene	94.0	80-120	%REC	1	6/3/2015 1:46:31 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1506057**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/12/2015

CLIENT: GL Environmental Inc

Client Sample ID: soil 16 1.5-2.5' RBD

Project: Red Bluff Draw

Collection Date: 5/27/2015 2:30:00 PM

Lab ID: 1506057-005 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	30	mg/Kg	20	6/5/2015 9:07:39 PM	19567
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/4/2015 2:01:54 PM	19508
Surr: DNOP	124	57.9-140	%REC	1	6/4/2015 2:01:54 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 2:15:15 PM	19498
Surr: BFB	87.9	75.4-113	%REC	1	6/3/2015 2:15:15 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 2:15:15 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 2:15:15 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 2:15:15 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 2:15:15 PM	19498
Surr: 4-Bromofluorobenzene	92.9	80-120	%REC	1	6/3/2015 2:15:15 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Red Bluff Draw

Project:

Client Sample ID: soil 16 2.5-3.5' RBD

Collection Date: 5/27/2015 2:30:00 PM

Lab ID: 1506057-006 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	360	30	mg/Kg	20	6/5/2015 9:20:03 PM	19567
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	21	10	mg/Kg	1	6/4/2015 3:06:19 PM	19508
Surr: DNOP	93.6	57.9-140	%REC	1	6/4/2015 3:06:19 PM	19508
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 2:43:59 PM	19498
Surr: BFB	87.3	75.4-113	%REC	1	6/3/2015 2:43:59 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 2:43:59 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 2:43:59 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 2:43:59 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 2:43:59 PM	19498
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	6/3/2015 2:43:59 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Page 6 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506057 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 16 3.5-4.0' RBD

Collection Date: 5/27/2015 2:30:00 PM

Project: Red Bluff Draw 1506057-007 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	110	30	mg/Kg	20	6/5/2015 9:32:27 PM	19567
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2015 3:27:36 PM	19508
Surr: DNOP	89.5	57.9-140	%REC	1	6/4/2015 3:27:36 PM	19508
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 3:12:43 PM	19498
Surr: BFB	88.0	75.4-113	%REC	1	6/3/2015 3:12:43 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 3:12:43 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 3:12:43 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 3:12:43 PM	19498
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2015 3:12:43 PM	19498
Surr: 4-Bromofluorobenzene	92.2	80-120	%REC	1	6/3/2015 3:12:43 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order **1506057**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/12/2015

CLIENT: GL Environmental Inc

Client Sample ID: soil 17 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:35:00 PM

 Lab ID:
 1506057-008
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL (Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analys	t: LGT
Chloride	ND	7.5		mg/Kg	5	6/8/2015 10:01:46 PM	19567
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	24	9.9		mg/Kg	1	6/4/2015 3:48:59 PM	19508
Surr: DNOP	96.2	57.9-140		%REC	1	6/4/2015 3:48:59 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	6/3/2015 4:07:08 PM	19498
Surr: BFB	105	75.4-113		%REC	1	6/3/2015 4:07:08 PM	19498
EPA METHOD 8021B: VOLATILES						Analys	t: NSB
Benzene	ND	0.049		mg/Kg	1	6/3/2015 4:07:08 PM	19498
Toluene	ND	0.049		mg/Kg	1	6/3/2015 4:07:08 PM	19498
Ethylbenzene	ND	0.049		mg/Kg	1	6/3/2015 4:07:08 PM	19498
Xylenes, Total	ND	0.099		mg/Kg	1	6/3/2015 4:07:08 PM	19498
Surr: 4-Bromofluorobenzene	122	80-120	S	%REC	1	6/3/2015 4:07:08 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506057 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Red Bluff Draw

Project:

Client Sample ID: soil 17 .5-1.5' RBD

Collection Date: 5/27/2015 2:35:00 PM

1506057-009 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	11	7.5	mg/Kg	5	6/5/2015 1:03:40 PM	19593
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/4/2015 4:10:19 PM	19508
Surr: DNOP	114	57.9-140	%REC	1	6/4/2015 4:10:19 PM	19508
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 4:35:58 PM	19498
Surr: BFB	87.0	75.4-113	%REC	1	6/3/2015 4:35:58 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 4:35:58 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 4:35:58 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 4:35:58 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 4:35:58 PM	19498
Surr: 4-Bromofluorobenzene	91.2	80-120	%REC	1	6/3/2015 4:35:58 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order 1506057 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 17 1.5-2.5' RBD

Collection Date: 5/27/2015 2:35:00 PM

Project: Red Bluff Draw 1506057-010 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	94	7.5	mg/Kg	5	6/5/2015 1:40:53 PM	19593
EPA METHOD 8015D: DIESEL RANGI	E ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/4/2015 4:31:47 PM	19508
Surr: DNOP	86.2	57.9-140	%REC	1	6/4/2015 4:31:47 PM	19508
EPA METHOD 8015D: GASOLINE RA	EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 5:04:48 PM	19498
Surr: BFB	86.9	75.4-113	%REC	1	6/3/2015 5:04:48 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 5:04:48 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 5:04:48 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 5:04:48 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 5:04:48 PM	19498
Surr: 4-Bromofluorobenzene	90.7	80-120	%REC	1	6/3/2015 5:04:48 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 10 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Analytical ReportLab Order **1506057**

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 17 2.5-3.5' RBD

Project: Red Bluff Draw

Collection Date: 5/27/2015 2:35:00 PM

Lab ID: 1506057-011 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Chloride	280	75	mg/Kg	50	6/8/2015 10:14:11 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 5:14:38 PM	19508
Surr: DNOP	86.6	57.9-140	%REC	1	6/4/2015 5:14:38 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	:: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 7:57:04 PM	19498
Surr: BFB	85.9	75.4-113	%REC	1	6/3/2015 7:57:04 PM	19498
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 7:57:04 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 7:57:04 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 7:57:04 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 7:57:04 PM	19498
Surr: 4-Bromofluorobenzene	89.0	80-120	%REC	1	6/3/2015 7:57:04 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 11 of 44
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 17 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:35:00 PM

 Lab ID:
 1506057-012
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: LGT
Chloride	600	30	mg/Kg	20	6/8/2015 10:26:35 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2015 5:35:59 PM	19508
Surr: DNOP	84.2	57.9-140	%REC	1	6/4/2015 5:35:59 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 8:25:54 PM	19498
Surr: BFB	86.7	75.4-113	%REC	1	6/3/2015 8:25:54 PM	19498
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 8:25:54 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 8:25:54 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 8:25:54 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 8:25:54 PM	19498
Surr: 4-Bromofluorobenzene	90.8	80-120	%REC	1	6/3/2015 8:25:54 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 12 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 18 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:50:00 PM

 Lab ID:
 1506057-013
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 3:07:46 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/4/2015 5:57:28 PM	19508
Surr: DNOP	90.8	57.9-140	%REC	1	6/4/2015 5:57:28 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 8:54:41 PM	19498
Surr: BFB	86.1	75.4-113	%REC	1	6/3/2015 8:54:41 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 8:54:41 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 8:54:41 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 8:54:41 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 8:54:41 PM	19498
Surr: 4-Bromofluorobenzene	89.7	80-120	%REC	1	6/3/2015 8:54:41 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 18 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:50:00 PM

 Lab ID:
 1506057-014
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	31	7.5	mg/Kg	5	6/5/2015 3:20:11 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/4/2015 6:18:54 PM	19508
Surr: DNOP	117	57.9-140	%REC	1	6/4/2015 6:18:54 PM	19508
EPA METHOD 8015D: GASOLINE R	EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 9:23:27 PM	19498
Surr: BFB	86.0	75.4-113	%REC	1	6/3/2015 9:23:27 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 9:23:27 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 9:23:27 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 9:23:27 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 9:23:27 PM	19498
Surr: 4-Bromofluorobenzene	89.5	80-120	%REC	1	6/3/2015 9:23:27 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 18 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:50:00 PM

 Lab ID:
 1506057-015
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	51	7.5	mg/Kg	5	6/5/2015 3:32:35 PM	19593
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/4/2015 6:40:27 PM	19508
Surr: DNOP	93.0	57.9-140	%REC	1	6/4/2015 6:40:27 PM	19508
EPA METHOD 8015D: GASOLINE RAN	IGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 9:52:12 PM	19498
Surr: BFB	87.2	75.4-113	%REC	1	6/3/2015 9:52:12 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 9:52:12 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 9:52:12 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 9:52:12 PM	19498
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2015 9:52:12 PM	19498
Surr: 4-Bromofluorobenzene	91.4	80-120	%REC	1	6/3/2015 9:52:12 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- Page 15 of 44
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 18 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 2:50:00 PM

 Lab ID:
 1506057-016
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	77	7.5	mg/Kg	5	6/5/2015 3:44:59 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 7:23:13 PM	19508
Surr: DNOP	87.9	57.9-140	%REC	1	6/4/2015 7:23:13 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 10:20:57 PM	19498
Surr: BFB	86.7	75.4-113	%REC	1	6/3/2015 10:20:57 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 10:20:57 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 10:20:57 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 10:20:57 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 10:20:57 PM	19498
Surr: 4-Bromofluorobenzene	91.1	80-120	%REC	1	6/3/2015 10:20:57 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506057 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 19 0-.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 3:10:00 PM 1506057-017 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	8.2	7.5	mg/Kg	5	6/5/2015 3:57:23 PM	19593
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/4/2015 7:44:31 PM	19508
Surr: DNOP	105	57.9-140	%REC	1	6/4/2015 7:44:31 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 10:49:39 PM	19498
Surr: BFB	87.0	75.4-113	%REC	1	6/3/2015 10:49:39 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 10:49:39 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 10:49:39 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 10:49:39 PM	19498
Xylenes, Total	ND	0.099	mg/Kg	1	6/3/2015 10:49:39 PM	19498
Surr: 4-Bromofluorobenzene	90.7	80-120	%REC	1	6/3/2015 10:49:39 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 19 .5-1.5' RBD

Project: Red Bluff Draw

Collection Date: 5/27/2015 3:10:00 PM

Lab ID: 1506057-018 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 4:09:48 PM	19593
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 8:05:52 PM	19508
Surr: DNOP	107	57.9-140	%REC	1	6/4/2015 8:05:52 PM	19508
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/3/2015 11:18:23 PM	19498
Surr: BFB	87.5	75.4-113	%REC	1	6/3/2015 11:18:23 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/3/2015 11:18:23 PM	19498
Toluene	ND	0.050	mg/Kg	1	6/3/2015 11:18:23 PM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/3/2015 11:18:23 PM	19498
Xylenes, Total	ND	0.10	mg/Kg	1	6/3/2015 11:18:23 PM	19498
Surr: 4-Bromofluorobenzene	92.5	80-120	%REC	1	6/3/2015 11:18:23 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 19 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 3:10:00 PM

 Lab ID:
 1506057-019
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 4:22:12 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 8:27:07 PM	19508
Surr: DNOP	74.6	57.9-140	%REC	1	6/4/2015 8:27:07 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/3/2015 11:47:01 PM	19498
Surr: BFB	87.6	75.4-113	%REC	1	6/3/2015 11:47:01 PM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/3/2015 11:47:01 PM	19498
Toluene	ND	0.049	mg/Kg	1	6/3/2015 11:47:01 PM	19498
Ethylbenzene	ND	0.049	mg/Kg	1	6/3/2015 11:47:01 PM	19498
Xylenes, Total	ND	0.098	mg/Kg	1	6/3/2015 11:47:01 PM	19498
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	6/3/2015 11:47:01 PM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 19 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 3:10:00 PM

 Lab ID:
 1506057-020
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/5/2015 4:34:36 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 8:48:27 PM	19508
Surr: DNOP	79.2	57.9-140	%REC	1	6/4/2015 8:48:27 PM	19508
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/4/2015 12:15:52 AM	19498
Surr: BFB	86.9	75.4-113	%REC	1	6/4/2015 12:15:52 AM	19498
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/4/2015 12:15:52 AM	19498
Toluene	ND	0.050	mg/Kg	1	6/4/2015 12:15:52 AM	19498
Ethylbenzene	ND	0.050	mg/Kg	1	6/4/2015 12:15:52 AM	19498
Xylenes, Total	ND	0.10	mg/Kg	1	6/4/2015 12:15:52 AM	19498
Surr: 4-Bromofluorobenzene	91.5	80-120	%REC	1	6/4/2015 12:15:52 AM	19498

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 20 of 44
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 19 3.5-4.0' RBD

Project: Red Bluff Draw

Collection Date: 5/27/2015 3:10:00 PM

Lab ID: 1506057-021 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	14	7.5	mg/Kg	5	6/5/2015 4:47:01 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/4/2015 10:13:36 PM	19536
Surr: DNOP	84.6	57.9-140	%REC	1	6/4/2015 10:13:36 PM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/5/2015 2:44:15 PM	19516
Surr: BFB	87.8	75.4-113	%REC	1	6/5/2015 2:44:15 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/5/2015 2:44:15 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/5/2015 2:44:15 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/5/2015 2:44:15 PM	19516
Xylenes, Total	ND	0.097	mg/Kg	1	6/5/2015 2:44:15 PM	19516
Surr: 4-Bromofluorobenzene	94.3	80-120	%REC	1	6/5/2015 2:44:15 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 21 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 20 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 4:35:00 PM

 Lab ID:
 1506057-022
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	LGT
Chloride	2600	300	mg/Kg	200	6/8/2015 10:38:59 PM	19593
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/4/2015 11:17:22 PM	19536
Surr: DNOP	82.8	57.9-140	%REC	1	6/4/2015 11:17:22 PM	19536
EPA METHOD 8015D: GASOLINE RAN	GE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/5/2015 3:12:58 PM	19516
Surr: BFB	89.0	75.4-113	%REC	1	6/5/2015 3:12:58 PM	19516
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	6/5/2015 3:12:58 PM	19516
Toluene	ND	0.050	mg/Kg	1	6/5/2015 3:12:58 PM	19516
Ethylbenzene	ND	0.050	mg/Kg	1	6/5/2015 3:12:58 PM	19516
Xylenes, Total	ND	0.099	mg/Kg	1	6/5/2015 3:12:58 PM	19516
Surr: 4-Bromofluorobenzene	93.7	80-120	%REC	1	6/5/2015 3:12:58 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 20 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 4:35:00 PM

 Lab ID:
 1506057-023
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	150	7.5	mg/Kg	5	6/5/2015 5:36:40 PM	19593
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/4/2015 11:38:48 PM	19536
Surr: DNOP	86.6	57.9-140	%REC	1	6/4/2015 11:38:48 PM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 3:41:39 PM	19516
Surr: BFB	87.3	75.4-113	%REC	1	6/5/2015 3:41:39 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 3:41:39 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/5/2015 3:41:39 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 3:41:39 PM	19516
Xylenes, Total	ND	0.094	mg/Kg	1	6/5/2015 3:41:39 PM	19516
Surr: 4-Bromofluorobenzene	92.5	80-120	%REC	1	6/5/2015 3:41:39 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 20 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 4:35:00 PM

 Lab ID:
 1506057-024
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	100	7.5	mg/Kg	5	6/5/2015 5:49:05 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 12:00:12 AM	19536
Surr: DNOP	85.2	57.9-140	%REC	1	6/5/2015 12:00:12 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/5/2015 4:10:27 PM	19516
Surr: BFB	87.7	75.4-113	%REC	1	6/5/2015 4:10:27 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/5/2015 4:10:27 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/5/2015 4:10:27 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/5/2015 4:10:27 PM	19516
Xylenes, Total	ND	0.098	mg/Kg	1	6/5/2015 4:10:27 PM	19516
Surr: 4-Bromofluorobenzene	92.1	80-120	%REC	1	6/5/2015 4:10:27 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
 - P Sample pH Not In Range
- RL Reporting Detection Limit

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Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 20 2.5-3.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/27/2015 4:35:00 PM 1506057-025 Matrix: SOIL Received Date: 6/2/2015 8:30:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	95	7.5	mg/Kg	5	6/5/2015 6:01:29 PM	19593
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 12:21:37 AM	19536
Surr: DNOP	85.9	57.9-140	%REC	1	6/5/2015 12:21:37 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 4:39:12 PM	19516
Surr: BFB	87.2	75.4-113	%REC	1	6/5/2015 4:39:12 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 4:39:12 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/5/2015 4:39:12 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 4:39:12 PM	19516
Xylenes, Total	ND	0.094	mg/Kg	1	6/5/2015 4:39:12 PM	19516
Surr: 4-Bromofluorobenzene	91.9	80-120	%REC	1	6/5/2015 4:39:12 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 20 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 4:35:00 PM

 Lab ID:
 1506057-026
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	130	7.5	mg/Kg	5	6/5/2015 6:13:54 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 1:04:24 AM	19536
Surr: DNOP	87.8	57.9-140	%REC	1	6/5/2015 1:04:24 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 5:07:53 PM	19516
Surr: BFB	86.4	75.4-113	%REC	1	6/5/2015 5:07:53 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 5:07:53 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/5/2015 5:07:53 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 5:07:53 PM	19516
Xylenes, Total	ND	0.095	mg/Kg	1	6/5/2015 5:07:53 PM	19516
Surr: 4-Bromofluorobenzene	90.1	80-120	%REC	1	6/5/2015 5:07:53 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 26 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Red Bluff Draw

Project:

Client Sample ID: soil 21 0-.5' RBD

Collection Date: 5/27/2015 5:10:00 PM

Lab ID: 1506057-027 **Matrix:** SOIL **Received Date:** 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	3300	150	mg/Kg	100	6/8/2015 10:51:24 PM	19593
EPA METHOD 8015D: DIESEL RANG	E ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 1:25:42 AM	19536
Surr: DNOP	87.7	57.9-140	%REC	1	6/5/2015 1:25:42 AM	19536
EPA METHOD 8015D: GASOLINE RA	NGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 8:28:54 PM	19516
Surr: BFB	87.7	75.4-113	%REC	1	6/5/2015 8:28:54 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 8:28:54 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/5/2015 8:28:54 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 8:28:54 PM	19516
Xylenes, Total	ND	0.095	mg/Kg	1	6/5/2015 8:28:54 PM	19516
Surr: 4-Bromofluorobenzene	92.5	80-120	%REC	1	6/5/2015 8:28:54 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 27 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: soil 21 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 5:10:00 PM

 Lab ID:
 1506057-028
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Chloride	2500	75	mg/Kg	50	6/8/2015 11:03:48 PM	19593
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analyst	:: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 1:47:10 AM	19536
Surr: DNOP	88.1	57.9-140	%REC	1	6/5/2015 1:47:10 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/5/2015 8:57:37 PM	19516
Surr: BFB	88.2	75.4-113	%REC	1	6/5/2015 8:57:37 PM	19516
EPA METHOD 8021B: VOLATILES					Analyst	: NSB
Benzene	ND	0.050	mg/Kg	1	6/5/2015 8:57:37 PM	19516
Toluene	ND	0.050	mg/Kg	1	6/5/2015 8:57:37 PM	19516
Ethylbenzene	ND	0.050	mg/Kg	1	6/5/2015 8:57:37 PM	19516
Xylenes, Total	ND	0.099	mg/Kg	1	6/5/2015 8:57:37 PM	19516
Surr: 4-Bromofluorobenzene	93.3	80-120	%REC	1	6/5/2015 8:57:37 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 28 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 21 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 5:10:00 PM

 Lab ID:
 1506057-029
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1500	75	mg/Kg	50	6/9/2015 4:47:39 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/5/2015 2:08:30 AM	19536
Surr: DNOP	87.2	57.9-140	%REC	1	6/5/2015 2:08:30 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/4/2015 7:21:49 PM	19516
Surr: BFB	85.2	75.4-113	%REC	1	6/4/2015 7:21:49 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	6/4/2015 7:21:49 PM	19516
Toluene	ND	0.046	mg/Kg	1	6/4/2015 7:21:49 PM	19516
Ethylbenzene	ND	0.046	mg/Kg	1	6/4/2015 7:21:49 PM	19516
Xylenes, Total	ND	0.093	mg/Kg	1	6/4/2015 7:21:49 PM	19516
Surr: 4-Bromofluorobenzene	99.9	80-120	%REC	1	6/4/2015 7:21:49 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Pool
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 21 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 5:10:00 PM

 Lab ID:
 1506057-030
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1900	75	mg/Kg	50	6/9/2015 5:00:03 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/5/2015 2:29:55 AM	19536
Surr: DNOP	91.5	57.9-140	%REC	1	6/5/2015 2:29:55 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/4/2015 7:46:56 PM	19516
Surr: BFB	84.0	75.4-113	%REC	1	6/4/2015 7:46:56 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/4/2015 7:46:56 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/4/2015 7:46:56 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/4/2015 7:46:56 PM	19516
Xylenes, Total	ND	0.095	mg/Kg	1	6/4/2015 7:46:56 PM	19516
Surr: 4-Bromofluorobenzene	97.4	80-120	%REC	1	6/4/2015 7:46:56 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 30 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 21 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/27/2015 5:10:00 PM

 Lab ID:
 1506057-031
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1700	75	mg/Kg	50	6/9/2015 5:37:17 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 3:12:23 AM	19536
Surr: DNOP	90.8	57.9-140	%REC	1	6/5/2015 3:12:23 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/4/2015 8:12:02 PM	19516
Surr: BFB	83.1	75.4-113	%REC	1	6/4/2015 8:12:02 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/4/2015 8:12:02 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/4/2015 8:12:02 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/4/2015 8:12:02 PM	19516
Xylenes, Total	ND	0.099	mg/Kg	1	6/4/2015 8:12:02 PM	19516
Surr: 4-Bromofluorobenzene	94.4	80-120	%REC	1	6/4/2015 8:12:02 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 22 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 9:40:00 AM

 Lab ID:
 1506057-032
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	9.5	7.5	mg/Kg	5	6/8/2015 5:03:55 PM	19614
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/5/2015 3:33:40 AM	19536
Surr: DNOP	95.3	57.9-140	%REC	1	6/5/2015 3:33:40 AM	19536
EPA METHOD 8015D: GASOLINE RAN	GE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/4/2015 8:37:26 PM	19516
Surr: BFB	85.7	75.4-113	%REC	1	6/4/2015 8:37:26 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/4/2015 8:37:26 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/4/2015 8:37:26 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/4/2015 8:37:26 PM	19516
Xylenes, Total	ND	0.099	mg/Kg	1	6/4/2015 8:37:26 PM	19516
Surr: 4-Bromofluorobenzene	101	80-120	%REC	1	6/4/2015 8:37:26 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

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RL Reporting Detection Limit

Lab Order **1506057**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 22 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 9:40:00 AM

 Lab ID:
 1506057-033
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/8/2015 5:16:19 PM	19614
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/5/2015 3:54:52 AM	19536
Surr: DNOP	87.7	57.9-140	%REC	1	6/5/2015 3:54:52 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/4/2015 9:02:28 PM	19516
Surr: BFB	82.2	75.4-113	%REC	1	6/4/2015 9:02:28 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/4/2015 9:02:28 PM	19516
Toluene	ND	0.047	mg/Kg	1	6/4/2015 9:02:28 PM	19516
Ethylbenzene	ND	0.047	mg/Kg	1	6/4/2015 9:02:28 PM	19516
Xylenes, Total	ND	0.095	mg/Kg	1	6/4/2015 9:02:28 PM	19516
Surr: 4-Bromofluorobenzene	92.9	80-120	%REC	1	6/4/2015 9:02:28 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 33 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 22 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 9:40:00 AM

 Lab ID:
 1506057-034
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/8/2015 5:28:43 PM	19614
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/5/2015 4:16:00 AM	19536
Surr: DNOP	93.3	57.9-140	%REC	1	6/5/2015 4:16:00 AM	19536
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/4/2015 9:27:48 PM	19516
Surr: BFB	83.2	75.4-113	%REC	1	6/4/2015 9:27:48 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/4/2015 9:27:48 PM	19516
Toluene	ND	0.050	mg/Kg	1	6/4/2015 9:27:48 PM	19516
Ethylbenzene	ND	0.050	mg/Kg	1	6/4/2015 9:27:48 PM	19516
Xylenes, Total	ND	0.10	mg/Kg	1	6/4/2015 9:27:48 PM	19516
Surr: 4-Bromofluorobenzene	95.6	80-120	%REC	1	6/4/2015 9:27:48 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 34 of 44
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 22 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 9:40:00 AM

 Lab ID:
 1506057-035
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/8/2015 5:41:08 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 4:37:19 AM	19536
Surr: DNOP	88.8	57.9-140	%REC	1	6/5/2015 4:37:19 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/4/2015 9:52:49 PM	19516
Surr: BFB	81.5	75.4-113	%REC	1	6/4/2015 9:52:49 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/4/2015 9:52:49 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/4/2015 9:52:49 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/4/2015 9:52:49 PM	19516
Xylenes, Total	ND	0.098	mg/Kg	1	6/4/2015 9:52:49 PM	19516
Surr: 4-Bromofluorobenzene	92.8	80-120	%REC	1	6/4/2015 9:52:49 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506057**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: soil 22 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 9:40:00 AM

 Lab ID:
 1506057-036
 Matrix: SOIL
 Received Date: 6/2/2015 8:30:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	6/8/2015 5:53:32 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/5/2015 4:58:36 AM	19536
Surr: DNOP	91.4	57.9-140	%REC	1	6/5/2015 4:58:36 AM	19536
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/5/2015 9:26:19 PM	19516
Surr: BFB	89.4	75.4-113	%REC	1	6/5/2015 9:26:19 PM	19516
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/5/2015 9:26:19 PM	19516
Toluene	ND	0.049	mg/Kg	1	6/5/2015 9:26:19 PM	19516
Ethylbenzene	ND	0.049	mg/Kg	1	6/5/2015 9:26:19 PM	19516
Xylenes, Total	ND	0.097	mg/Kg	1	6/5/2015 9:26:19 PM	19516
Surr: 4-Bromofluorobenzene	95.9	80-120	%REC	1	6/5/2015 9:26:19 PM	19516

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client: Project:	GL Envir Red Bluff	onmental I Draw	nc								
·	MB-19567	SampTy						300.0: Anion	ıs		
Client ID:	PBS		ID: 19			RunNo: 2					
Prep Date:	6/4/2015	Analysis Da	ate: 6/	/4/2015	5	SeqNo: 7	93483	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-19567	SampTy	ype: LC	cs	Tes	tCode: E	PA Method	300.0: Anion	ıs		
Client ID:	LCSS	Batch	ID: 19	567	F	RunNo: 2	6642				
Prep Date:	6/4/2015	Analysis Da	ate: 6/	/4/2015	5	SeqNo: 7	93484	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	101	90	110			
Sample ID	MB-19593	SampT	ype: ME	BLK	Tes	tCode: E	PA Method	300.0: Anion	ıs		
Client ID:	PBS	Batch	ID: 19	593	F	RunNo: 2	6668				
Prep Date:	6/5/2015	Analysis Da	ate: 6/	/5/2015	5	SeqNo: 7	94487	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-19593	SampTy	ype: LC	s	Tes	tCode: E	PA Method	300.0: Anion	ıs		
Client ID:	LCSS	Batch	ID: 19	593	F	RunNo: 2	6668				
Prep Date:	6/5/2015	Analysis Da	ate: 6/	/5/2015	9	SeqNo: 7	94488	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	93.7	90	110			
Sample ID	1506057-009AMS	SampTy	ype: M \$	S	Tes	tCode: E	PA Method	300.0: Anior	ıs		
Client ID:	soil 17 .5-1.5' RBD	Batch	ID: 19	593	F	RunNo: 2	6668				
Prep Date:	6/5/2015	Analysis Da	ate: 6/	/5/2015	5	SeqNo: 7	94490	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		25	7.5	15.00	10.63	95.1	64.2	131			
Sample ID	1506057-009AMSE	S ampTy	ype: M \$	SD	Tes	tCode: E	PA Method	300.0: Anior	ns		
Client ID:	soil 17 .5-1.5' RBD	Batch	ID: 19	593	F	RunNo: 2	6668				
Prep Date:	6/5/2015	Analysis Da	ate: 6/	/5/2015	5	SeqNo: 7	94491	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

Chloride

* Value exceeds Maximum Contaminant Level.

25

7.5

15.00

10.63

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

64.2

131

1.36

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

92.9

- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19614 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 19614 RunNo: 26693

Prep Date: 6/8/2015 Analysis Date: 6/8/2015 SeqNo: 795349 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID LCS-19614 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 19614 RunNo: 26693

Prep Date: 6/8/2015 Analysis Date: 6/8/2015 SeqNo: 795350 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 15 1.5 15.00 0 98.5 90 110

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1506057**

12-Jun-15

Project:	Red Bluf	f Draw									
Sample ID	MB-19508	SampTy	ype: ME	3LK	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	PBS	Batch	ID: 19	508	F	RunNo: 2	6611				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	4/2015	5	SeqNo: 7	92363	Units: mg/k	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	ND 9.4	10	10.00		94.2	57.9	140			
Sample ID	LCS-19508	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	LCSS	Batch	ID: 19	508	F	RunNo: 2	6611				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	4/2015	5	SeqNo: 7	92753	Units: mg/h	〈 g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Surr: DNOP	Organics (DRO)	58 5.5	10	50.00 5.000	0	115 110	67.8 57.9	130 140			
Sample ID	1506057-001AMS	SampT	ype: M \$	 S	Tes	tCode: El	PA Method	8015D: Dies	el Range C	Organics	
Client ID:	soil 4 05' RBD	Batch	ID: 19	508	F	RunNo: 2	6611				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	4/2015	5	SeqNo: 7	92755	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	0 ' (DDO)										
Diesel Range Surr: DNOP	=	48 4.9	9.9	49.31 4.931	0	97.6 98.9	42.3 57.9	146 140			
Surr: DNOP	=	4.9		4.931		98.9	57.9		el Range C	Organics	
Surr: DNOP	·	4.9 D SampTy		4.931 SD	Tes	98.9	57.9 PA Method	140	el Range C	Organics	
Surr: DNOP Sample ID Client ID:	1506057-001AMS	4.9 D SampTy	ype: M\$	4.931 SD 508	Tes	98.9 tCode: El	57.9 PA Method 6611	140	•	Organics	
Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1506057-001AMSI soil 4 05' RBD 6/2/2015	4.9 D SampTy Batch	ype: M\$	4.931 SD 508 4/2015	Tes	98.9 tCode: E l RunNo: 2	57.9 PA Method 6611	140 8015D: Dies	•	Organics RPDLimit	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO)	Analysis Da	ype: M\$ ID: 19 ate: 6 /	4.931 SD 508 4/2015	Tes F	98.9 tCode: El RunNo: 2 SeqNo: 7	57.9 PA Method 6611 92756	140 8015D: Dies Units: mg/h	√ g		Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO)	A.9 D SampTy Batch Analysis Da Result 43	ype: M\$ ID: 19 ate: 6/ PQL 9.9	4.931 500 508 4/2015 SPK value 49.46 4.946	Tes F S SPK Ref Val 0	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0	57.9 PA Method 6611 92756 LowLimit 42.3 57.9	8015D: Dies Units: mg/k HighLimit 146	% RPD 10.6	RPDLimit 28.9	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO)	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy	ype: M\$ ID: 19 ate: 6/ PQL 9.9	4.931 50 508 4/2015 SPK value 49.46 4.946 BLK	Tes F SPK Ref Val 0	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method	140 8015D: Dies Units: mg/k HighLimit 146 140	% RPD 10.6	RPDLimit 28.9	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID:	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO)	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy	ype: MS ID: 19: ate: 6/ PQL 9.9 ype: ME	4.931 50 508 4/2015 SPK value 49.46 4.946 BLK 536	Tes F SPK Ref Val 0 Tes	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611	140 8015D: Dies Units: mg/k HighLimit 146 140	%RPD 10.6 0	RPDLimit 28.9	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID:	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO) MB-19536 PBS	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy Batch	ype: MS ID: 19: ate: 6/ PQL 9.9 ype: ME	4.931 505 508 4/2015 SPK value 49.46 4.946 BLK 536 4/2015	Tes F SPK Ref Val 0 Tes	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El RunNo: 2	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611	140 8015D: Dies Units: mg/k HighLimit 146 140 8015D: Dies	%RPD 10.6 0	RPDLimit 28.9	Qual
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID: Prep Date: Analyte	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO) MB-19536 PBS 6/3/2015	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy Batch Analysis Da	ype: MS ID: 19: ate: 6/ PQL 9.9 ype: ME ID: 19: ate: 6/	4.931 505 508 4/2015 SPK value 49.46 4.946 BLK 536 4/2015	Tes F SPK Ref Val 0 Tes F	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El RunNo: 2 SeqNo: 7	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611 93140	140 8015D: Dies Units: mg/k HighLimit 146 140 8015D: Dies Units: mg/k	%RPD 10.6 0 el Range (RPDLimit 28.9 0 Organics	
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO) MB-19536 PBS 6/3/2015	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy Batch Analysis Da Result ND	ype: MS ID: 19: ate: 6/ PQL 9.9 ID: 19: ate: 6/ PQL 10: 19:	4.931 50 508 4/2015 SPK value 49.46 4.946 3LK 536 4/2015 SPK value 10.00	Tes F SPK Ref Val 0 Tes F SPK Ref Val	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El RunNo: 2 SeqNo: 7 %REC	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611 93140 LowLimit 57.9	140 8015D: Dies Units: mg/k HighLimit 146 140 8015D: Dies Units: mg/k HighLimit	%RPD 10.6 0 el Range (C	RPDLimit 28.9 0 Organics RPDLimit	
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO) MB-19536 PBS 6/3/2015 Organics (DRO)	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy Batch Analysis Da Result ND 11 SampTy	ype: MS ID: 19: ate: 6/ PQL 9.9 ID: 19: ate: 6/ PQL 10: 19:	4.931 5D 508 4/2015 SPK value 49.46 4.946 BLK 536 4/2015 SPK value 10.00	Tes SPK Ref Val 0 Tes SPK Ref Val	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El RunNo: 2 SeqNo: 7 %REC	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611 93140 LowLimit 57.9 PA Method	140 8015D: Dies Units: mg/k HighLimit 146 140 8015D: Dies Units: mg/k HighLimit	%RPD 10.6 0 el Range (C	RPDLimit 28.9 0 Organics RPDLimit	
Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Client ID: Prep Date: Analyte Diesel Range Surr: DNOP Sample ID Sample ID Sample ID Sample ID Sample ID	1506057-001AMSI soil 4 05' RBD 6/2/2015 Organics (DRO) MB-19536 PBS 6/3/2015 Organics (DRO)	A.9 D SampTy Batch Analysis Da Result 43 4.5 SampTy Batch Analysis Da Result ND 11 SampTy	ype: MS ID: 19: ate: 6/ PQL 9.9 ID: 19: ate: 6/ PQL 10: 19: total part of the	4.931 5D 508 4/2015 SPK value 49.46 4.946 3LK 536 4/2015 SPK value 10.00	Tes F SPK Ref Val 0 Tes SPK Ref Val Tes	98.9 tCode: El RunNo: 2 SeqNo: 7 %REC 87.5 90.0 tCode: El RunNo: 2 SeqNo: 7 %REC 107	57.9 PA Method 6611 92756 LowLimit 42.3 57.9 PA Method 6611 57.9 PA Method 6611	140 8015D: Dies Units: mg/k HighLimit 146 140 8015D: Dies Units: mg/k HighLimit	%RPD 10.6 0 el Range C	RPDLimit 28.9 0 Organics RPDLimit	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID LCS-19536 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 19536 RunNo: 26611 Prep Date: 6/3/2015 Analysis Date: 6/4/2015 SeqNo: 793141 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 55 50.00 0 110 67.8 130 Surr: DNOP 5.000 5.1 101 57.9 140

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID 1506057-021AMS SampType: MS soil 19 3.5-4.0' RBD Batch ID: 19536 RunNo: 26611 Prep Date: 6/3/2015 Analysis Date: 6/4/2015 SeqNo: 793143 Units: mg/Kg LowLimit Qual Analyte Result PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Diesel Range Organics (DRO) 42 9.5 47.71 0 88.8 42.3 146 Surr: DNOP 4.0 4.771 84.6 57.9 140

Sample ID 1506057-021AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics Client ID: soil 19 3.5-4.0' RBD Batch ID: 19536 RunNo: 26611 Prep Date: 6/3/2015 Analysis Date: 6/4/2015 SeqNo: 793144 Units: mg/Kg SPK value SPK Ref Val %REC %RPD **RPDLimit** Qual Analyte Result **PQL** LowLimit HighLimit Diesel Range Organics (DRO) 42 47.76 88.5 42.3 0.329 28.9 Surr: DNOP 4.1 4.776 85.4 57.9 140 0 0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: 1506057

12-Jun-15

Project:	Red Bluf	f Draw	nc								
Sample ID	MB-19498	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID:	PBS	Batch	ID: 19	498	F	RunNo: 2	6602				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	3/2015	Ş	SeqNo: 7	91834	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 870	5.0	1000		87.4	75.4	113			
Sample ID	LCS-19498	SampT	vpe: LC	 :S	Tes	tCode: EI	PA Method	8015D: Gase	oline Rang	<u> </u>	
Client ID:			ID: 19			RunNo: 2			9		
Prep Date:	6/2/2015	Analysis Da	ate: 6/	3/2015	9	SeqNo: 7	91835	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
	ge Organics (GRO)	24	5.0	25.00	0	95.6	64	130	70.11.2	- 11 - 2 - 11 - 11	<u> </u>
Surr: BFB		930		1000		93.3	75.4	113			
Sample ID	1506057-001AMS	SampT	ype: M \$	 S	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	soil 4 05' RBD	Batch	ID: 19	498	F	RunNo: 2	6602				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	3/2015	5	SeqNo: 7	91837	Units: mg/l	K g		
Analyte		Result	PQL		SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	25 930	5.0	24.78 991.1	0	99.0 94.3	47.9 75.4	144 113			
Sample ID	1506057-001AMSI	D SampT	ype: MS	SD	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	soil 4 05' RBD	Batch	ID: 19	498	F	RunNo: 2	6602				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	3/2015	5	SeqNo: 7 9	91838	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang	ge Organics (GRO)	26	5.0	24.85	0	103	47.9	144	4.10	29.9	
Surr: BFB		970		994.0		97.2	75.4	113	0	0	
Sample ID	MB-19516	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	е	
Client ID:	PBS	Batch	ID: 19	516	F	RunNo: 2	6620				
Prep Date:	6/2/2015	Analysis D	ate: 6/	4/2015	5	SeqNo: 7	93052	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	ge Organics (GRO)	ND 860	5.0	1000		86.5	75.4	113			
Sample ID	LCS-19516	SampT	ype: LC	s	Tes	tCode: El	PA Method	8015D: Gase	oline Rang	e	
Client ID:	LCSS	Batch	ID: 19	516	F	RunNo: 2	6620				
Prep Date:	6/2/2015	Analysis Da	ate: 6/	4/2015	S	SeqNo: 7	93054	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client: GL Environmental Inc Project: Red Bluff Draw

Sample ID LCS-19516 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 19516 RunNo: 26620 Analysis Date: 6/4/2015 Prep Date: 6/2/2015 SeqNo: 793054 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 26 5.0 25.00 0 105 64 130 Surr: BFB 950 95.0 1000 75.4 113

TestCode: EPA Method 8015D: Gasoline Range Sample ID MB-19545 SampType: MBLK Batch ID: 19545 Client ID: PBS RunNo: 26660 Analysis Date: 6/5/2015 SeqNo: 794163 Units: %REC Prep Date: 6/3/2015 Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Surr: BFB 850 1000 84.9 75.4 113

Sample ID LCS-19545 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range Client ID: LCSS Batch ID: 19545 RunNo: 26660 Analysis Date: 6/5/2015 Prep Date: 6/3/2015 SeqNo: 794164 Units: %REC **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result

Surr: BFB 950 1000 94.7 75.4 113

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19498 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: **PBS** Batch ID: 19498 RunNo: 26602 Prep Date: 6/2/2015 Analysis Date: 6/3/2015 SeqNo: 791862 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 Xylenes, Total ND 0.10 Surr: 4-Bromofluorobenzene 0.93 1.000 93.1 80 120

Sample ID LCS-19498 SampType: LCS TestCode: EPA Method 8021B: Volatiles Batch ID: 19498 Client ID: **LCSS** RunNo: 26602 Prep Date: 6/2/2015 Analysis Date: 6/3/2015 SeqNo: 791863 Units: mg/Kg **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Analyte LowLimit 1.0 0.050 1.000 O 105 76.6 128 Benzene Toluene 1.0 0.050 1.000 0 99.8 75 124 Ethylbenzene 0.050 0 101 79.5 126 1.0 1.000 Xylenes, Total 3.0 0.10 3.000 0 101 78.8 124 Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

Sample ID 1506057-002AMS SampType: MS TestCode: EPA Method 8021B: Volatiles RunNo: 26602 Client ID: soil 4 .5-1.5' RBD Batch ID: 19498 Prep Date: 6/2/2015 Analysis Date: 6/3/2015 SeaNo: 791866 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene 1.1 0.049 0.9804 0 109 69.2 126 Toluene 0.049 0.9804 0 110 65.6 128 1.1 65.5 0.049 0.9804 0 113 138 Ethylbenzene 1.1 Xylenes, Total 3.3 0.098 2.941 0 112 63 139 Surr: 4-Bromofluorobenzene 0.9804 98.4 80 0.96 120

Sample ID 1506057-002AMSD SampType: MSD TestCode: EPA Method 8021B: Volatiles Client ID: soil 4 .5-1.5' RBD Batch ID: 19498 RunNo: 26602 Prep Date: 6/2/2015 Analysis Date: 6/3/2015 SeqNo: 791867 Units: mg/Kg SPK value SPK Ref Val %REC **RPDLimit** Analyte Result **PQL** LowLimit HighLimit %RPD Qual Benzene 1.1 0.049 0.9823 0 109 69.2 126 0.119 18.5 Toluene 1.1 0.049 0.9823 0 108 65.6 128 1.53 20.6 Ethylbenzene 1.1 0.049 0.9823 0 113 65.5 138 0.168 20.1 Xylenes, Total 3.3 0.098 2.947 0 112 63 139 0.287 21.1 Surr: 4-Bromofluorobenzene 0.9823 103 80 120 0 1.0 0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506057**

12-Jun-15

Client:		vironmental I uff Draw	Inc								
Project:	Ked Bi	uii Draw									
Sample ID	MB-19516	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Vola	iles		
Client ID:	PBS	Batch	ID: 19	516	F	RunNo: 2	6620				
Prep Date:	6/2/2015	Analysis D	ate: 6/	4/2015	5	SeqNo: 7	93100	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		ND	0.050								
Toluene		ND	0.050								
Ethylbenzene		ND	0.050								
Xylenes, Total		ND	0.10								
Surr: 4-Bron	nofluorobenzene	0.90		1.000		90.5	80	120			
Sample ID	le ID LCS-19516 SampType: LCS			Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID:	LCSS	Batch	ID: 19	516	F	RunNo: 2	6620				
Prep Date:	6/2/2015	Analysis D	ate: 6/	4/2015	9	SeqNo: 7 9	93101	Units: mg/k	ζg		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene		1.0	0.050	1.000	0	104	76.6	128			
Toluene		1.0	0.050	1.000	0	104	75	124			
Ethylbenzene		1.1	0.050	1.000	0	105	79.5	126			
Xylenes, Total		3.1	0.10	3.000	0	104	78.8	124			
Surr: 4-Bron	nofluorobenzene	0.99		1.000		98.8	80	120			
Sample ID	mple ID MB-19545 SampType: MBLK			Tes	TestCode: EPA Method 8021B: Volatiles						
Client ID:	PBS	Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	5/2015	9	SeqNo: 7 9	94190	Units: %RE	С		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bron	nofluorobenzene	0.90		1.000		89.7	80	120			
Sample ID	LCS-19545	SampT	ype: LC	:s	Tes	tCode: El	PA Method	8021B: Vola	tiles		
Client ID:	LCSS	Batch	ID: 19	545	F	RunNo: 20	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	5/2015	9	SeqNo: 7 9	94191	Units: %RE	С		

SPK value SPK Ref Val %REC

1.000

Qualifiers:

Analyte

Surr: 4-Bromofluorobenzene

* Value exceeds Maximum Contaminant Level.

Result

1.0

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

LowLimit

80

100

HighLimit

120

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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%RPD

RPDLimit

Qual



Hall Environmental Analysis Laboratory 490! Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

Website: www.hallenvironmental.com

Sample Log-In Check List

RcptNo: 1 Work Order Number: 1506057 GL Environmental Inc Client Name: 06/02/15 Received by/date: Celin Som 6/2/2015 8:30:00 AM Celina Sessa Logged By: 6/2/2015 8:54:29 AM Completed By: Celina Sessa 04/02/15 Reviewed By: Chain of Custody Not Present Yes V 1. Custody seals intact on sample bottles? Yes V No Not Present 2. Is Chain of Custody complete? FedEx 3. How was the sample delivered? Log In No . NA 🗌 Yes 🗸 4. Was an attempt made to cool the samples? NA 🗌 No 🗌 Were all samples received at a temperature of >0° C to 6.0°C Yes V Yes V No . Sample(s) in proper container(s)? Yes V No 7. Sufficient sample volume for indicated test(s)? Yes 🗸 No 8. Are samples (except VOA and ONG) properly preserved? No V Yes 🗌 NA L 9. Was preservative added to bottles? No VOA Vials V No Yes 10.VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked No 🗌 for pH: Yes 🗸 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No _ Yes 13. Are matrices correctly identified on Chain of Custody? No . 14. Is it clear what analyses were requested? Checked by: No _ Yes 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) NA V Yes 16. Was client notified of all discrepancies with this order? No _ Date Person Notified: Phone Fax Via: eMail By Whom: Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No Signed By Seal Date 3.5 Good Yes

Ü	hain-	of-Cı	ust	Chain-of-Custody Record	€cord	Turn-Around	Time:	41515				- :	_ :		ENIVEDONIMENTAL	0		2	<u> </u>	<	
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Chain-of-Custody Record	Turn-Around Time:	HALL ENVIRONMENTAL
Olient:	Standard 🗆 Rush	ANALYSIS LABORATORY
The San Bour monte	Project Name:	www.hallenvironmental.com
Address:	RED BLUFF DEAW	4901 Hawkins NE - Albuquerque, NM 87109
See Da	Project #:	Tel. 505-345-3975 Fax 505-345-4107
		Analy
email or Fax#: 🔪	Project Manager:	PO()
QA/QG-Package: Standard	MATTERSE	S(802) M SIMS) SIMS) SPCB'
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Hosperson complex cultimited to Hall Environmental may be subcontracted to other a	7	credited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

June 12, 2015

Matt Lane

GL Environmental Inc

PO Box 1746

Las Vegas, NM 87701

TEL: (505) 454-0830

FAX

RE: Red Bluff Draw OrderNo.: 1506117

Dear Matt Lane:

Hall Environmental Analysis Laboratory received 30 sample(s) on 6/3/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 23 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 10:00:00 AM

 Lab ID:
 1506117-001
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	460	15	mg/Kg	10	6/9/2015 5:49:42 PM	19614
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/5/2015 10:03:08 AM	19550
Surr: DNOP	90.0	57.9-140	%REC	1	6/5/2015 10:03:08 AM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/5/2015 10:54:06 AM	19545
Surr: BFB	87.3	75.4-113	%REC	1	6/5/2015 10:54:06 AM	19545
EPA METHOD 8021B: VOLATILES				Analys	t: NSB	
Benzene	ND	0.048	mg/Kg	1	6/5/2015 10:54:06 AM	19545
Toluene	ND	0.048	mg/Kg	1	6/5/2015 10:54:06 AM	19545
Ethylbenzene	ND	0.048	mg/Kg	1	6/5/2015 10:54:06 AM	19545
Xylenes, Total	ND	0.096	mg/Kg	1	6/5/2015 10:54:06 AM	19545
Surr: 4-Bromofluorobenzene	92.2	80-120	%REC	1	6/5/2015 10:54:06 AM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Page 1 of 38

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 23 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 10:00:00 AM

 Lab ID:
 1506117-002
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	60	7.5	mg/Kg	5	6/8/2015 6:18:22 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/5/2015 11:07:08 AM	19550
Surr: DNOP	87.6	57.9-140	%REC	1	6/5/2015 11:07:08 AM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 12:20:23 PM	19545
Surr: BFB	87.5	75.4-113	%REC	1	6/5/2015 12:20:23 PM	19545
EPA METHOD 8021B: VOLATILES				Analys	t: NSB	
Benzene	ND	0.047	mg/Kg	1	6/5/2015 12:20:23 PM	19545
Toluene	ND	0.047	mg/Kg	1	6/5/2015 12:20:23 PM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 12:20:23 PM	19545
Xylenes, Total	ND	0.095	mg/Kg	1	6/5/2015 12:20:23 PM	19545
Surr: 4-Bromofluorobenzene	93.6	80-120	%REC	1	6/5/2015 12:20:23 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Po
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Page 2 of 38

Lab Order 1506117 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 23 1.5-2.5' RBD **Project:** Red Bluff Draw **Collection Date:** 5/28/2015 10:00:00 AM

1506117-003 Matrix: SOIL Received Date: 6/3/2015 9:03:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	46	7.5	mg/Kg	5	6/8/2015 6:30:46 PM	19614
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 11:28:29 AM	19550
Surr: DNOP	97.9	57.9-140	%REC	1	6/5/2015 11:28:29 AM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 9:54:59 PM	19545
Surr: BFB	90.1	75.4-113	%REC	1	6/5/2015 9:54:59 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 9:54:59 PM	19545
Toluene	ND	0.047	mg/Kg	1	6/5/2015 9:54:59 PM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 9:54:59 PM	19545
Xylenes, Total	ND	0.094	mg/Kg	1	6/5/2015 9:54:59 PM	19545
Surr: 4-Bromofluorobenzene	96.3	80-120	%REC	1	6/5/2015 9:54:59 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND
- Not Detected at the Reporting Limit

Page 3 of 38

- P Sample pH Not In Range
- Reporting Detection Limit

Lab Order 1506117 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 23 2.5-3.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/28/2015 10:00:00 AM 1506117-004 Matrix: SOIL Received Date: 6/3/2015 9:03:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	93	7.5	mg/Kg	5	6/8/2015 6:43:11 PM	19614
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/5/2015 11:49:56 AM	19550
Surr: DNOP	90.5	57.9-140	%REC	1	6/5/2015 11:49:56 AM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/5/2015 10:23:40 PM	19545
Surr: BFB	89.4	75.4-113	%REC	1	6/5/2015 10:23:40 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.048	mg/Kg	1	6/5/2015 10:23:40 PM	19545
Toluene	ND	0.048	mg/Kg	1	6/5/2015 10:23:40 PM	19545
Ethylbenzene	ND	0.048	mg/Kg	1	6/5/2015 10:23:40 PM	19545
Xylenes, Total	ND	0.097	mg/Kg	1	6/5/2015 10:23:40 PM	19545
Surr: 4-Bromofluorobenzene	95.0	80-120	%REC	1	6/5/2015 10:23:40 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1506117**

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 6/12/2015

CLIENT: GL Environmental Inc Client Sample ID: Soil 23 3.5-4.0' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 10:00:00 AM

 Lab ID:
 1506117-005
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	340	15	mg/Kg	10	6/9/2015 6:02:07 PM	19614
EPA METHOD 8015D: DIESEL RANG	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/5/2015 12:11:14 PM	19550
Surr: DNOP	94.0	57.9-140	%REC	1	6/5/2015 12:11:14 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/5/2015 10:52:21 PM	19545
Surr: BFB	88.5	75.4-113	%REC	1	6/5/2015 10:52:21 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/5/2015 10:52:21 PM	19545
Toluene	ND	0.050	mg/Kg	1	6/5/2015 10:52:21 PM	19545
Ethylbenzene	ND	0.050	mg/Kg	1	6/5/2015 10:52:21 PM	19545
Xylenes, Total	ND	0.099	mg/Kg	1	6/5/2015 10:52:21 PM	19545
Surr: 4-Bromofluorobenzene	93.6	80-120	%REC	1	6/5/2015 10:52:21 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range

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RL Reporting Detection Limit

Lab Order **1506117**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 24 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 8:20:00 AM

 Lab ID:
 1506117-006
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	85	7.5	mg/Kg	5	6/8/2015 7:32:50 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 12:53:50 PM	19550
Surr: DNOP	90.3	57.9-140	%REC	1	6/5/2015 12:53:50 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/5/2015 11:20:59 PM	19545
Surr: BFB	88.6	75.4-113	%REC	1	6/5/2015 11:20:59 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	6/5/2015 11:20:59 PM	19545
Toluene	ND	0.046	mg/Kg	1	6/5/2015 11:20:59 PM	19545
Ethylbenzene	ND	0.046	mg/Kg	1	6/5/2015 11:20:59 PM	19545
Xylenes, Total	ND	0.092	mg/Kg	1	6/5/2015 11:20:59 PM	19545
Surr: 4-Bromofluorobenzene	94.3	80-120	%REC	1	6/5/2015 11:20:59 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506117 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 24 .5-1.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/28/2015 8:20:00 AM 1506117-007 Matrix: SOIL Received Date: 6/3/2015 9:03:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	58	7.5	mg/Kg	5	6/8/2015 7:45:15 PM	19614
EPA METHOD 8015D: DIESEL RANGE ORGANICS				Analys	t: KJH	
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/5/2015 1:15:09 PM	19550
Surr: DNOP	87.1	57.9-140	%REC	1	6/5/2015 1:15:09 PM	19550
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/5/2015 11:49:35 PM	19545
Surr: BFB	89.3	75.4-113	%REC	1	6/5/2015 11:49:35 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/5/2015 11:49:35 PM	19545
Toluene	ND	0.050	mg/Kg	1	6/5/2015 11:49:35 PM	19545
Ethylbenzene	ND	0.050	mg/Kg	1	6/5/2015 11:49:35 PM	19545
Xylenes, Total	ND	0.099	mg/Kg	1	6/5/2015 11:49:35 PM	19545
Surr: 4-Bromofluorobenzene	94.7	80-120	%REC	1	6/5/2015 11:49:35 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 24 1.5-2.5' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:20:00 AM

Lab ID: 1506117-008 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	64	7.5	mg/Kg	5	6/8/2015 7:57:40 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/5/2015 1:36:20 PM	19550
Surr: DNOP	86.5	57.9-140	%REC	1	6/5/2015 1:36:20 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/6/2015 12:18:18 AM	19545
Surr: BFB	89.0	75.4-113	%REC	1	6/6/2015 12:18:18 AM	19545
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.047	mg/Kg	1	6/6/2015 12:18:18 AM	19545
Toluene	ND	0.047	mg/Kg	1	6/6/2015 12:18:18 AM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/6/2015 12:18:18 AM	19545
Xylenes, Total	ND	0.095	mg/Kg	1	6/6/2015 12:18:18 AM	19545
Surr: 4-Bromofluorobenzene	94.6	80-120	%REC	1	6/6/2015 12:18:18 AM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 24 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 8:20:00 AM

 Lab ID:
 1506117-009
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	85	7.5	mg/Kg	5	6/8/2015 8:10:05 PM	19614
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/5/2015 1:57:42 PM	19550
Surr: DNOP	87.8	57.9-140	%REC	1	6/5/2015 1:57:42 PM	19550
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/6/2015 12:47:01 AM	19545
Surr: BFB	89.9	75.4-113	%REC	1	6/6/2015 12:47:01 AM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	6/6/2015 12:47:01 AM	19545
Toluene	ND	0.048	mg/Kg	1	6/6/2015 12:47:01 AM	19545
Ethylbenzene	ND	0.048	mg/Kg	1	6/6/2015 12:47:01 AM	19545
Xylenes, Total	ND	0.096	mg/Kg	1	6/6/2015 12:47:01 AM	19545
Surr: 4-Bromofluorobenzene	96.1	80-120	%REC	1	6/6/2015 12:47:01 AM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 24 3.5-4.0' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:20:00 AM

Lab ID: 1506117-010 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	88	7.5	mg/Kg	5	6/8/2015 8:22:30 PM	19614
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/5/2015 2:18:58 PM	19550
Surr: DNOP	86.5	57.9-140	%REC	1	6/5/2015 2:18:58 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 2:45:03 PM	19545
Surr: BFB	87.8	75.4-113	%REC	1	6/5/2015 2:45:03 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 2:45:03 PM	19545
Toluene	ND	0.047	mg/Kg	1	6/5/2015 2:45:03 PM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 2:45:03 PM	19545
Xylenes, Total	ND	0.094	mg/Kg	1	6/5/2015 2:45:03 PM	19545
Surr: 4-Bromofluorobenzene	112	80-120	%REC	1	6/5/2015 2:45:03 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506117**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 25 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 8:40:00 AM

 Lab ID:
 1506117-011
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	220	7.5	mg/Kg	5	6/8/2015 8:34:54 PM	19614
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/8/2015 10:47:40 AM	19550
Surr: DNOP	95.9	57.9-140	%REC	1	6/8/2015 10:47:40 AM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	6/5/2015 3:10:21 PM	19545
Surr: BFB	84.5	75.4-113	%REC	1	6/5/2015 3:10:21 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.048	mg/Kg	1	6/5/2015 3:10:21 PM	19545
Toluene	ND	0.048	mg/Kg	1	6/5/2015 3:10:21 PM	19545
Ethylbenzene	ND	0.048	mg/Kg	1	6/5/2015 3:10:21 PM	19545
Xylenes, Total	ND	0.096	mg/Kg	1	6/5/2015 3:10:21 PM	19545
Surr: 4-Bromofluorobenzene	104	80-120	%REC	1	6/5/2015 3:10:21 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 11 of 38
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:40:00 AM

Lab ID: 1506117-012

Matrix: SOIL

Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	81	7.5	mg/Kg	5	6/9/2015 10:35:21 AM	19634
EPA METHOD 8015D: DIESEL RANG	SE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/8/2015 11:08:50 AM	19550
Surr: DNOP	92.1	57.9-140	%REC	1	6/8/2015 11:08:50 AM	19550
EPA METHOD 8015D: GASOLINE RA	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/5/2015 3:35:24 PM	19545
Surr: BFB	80.6	75.4-113	%REC	1	6/5/2015 3:35:24 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/5/2015 3:35:24 PM	19545
Toluene	ND	0.047	mg/Kg	1	6/5/2015 3:35:24 PM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/5/2015 3:35:24 PM	19545
Xylenes, Total	ND	0.094	mg/Kg	1	6/5/2015 3:35:24 PM	19545
Surr: 4-Bromofluorobenzene	92.7	80-120	%REC	1	6/5/2015 3:35:24 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 25 1.5-2.5' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:40:00 AM

Lab ID: 1506117-013 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analysi	t: LGT
Chloride	98	7.5	mg/Kg	5	6/9/2015 11:12:35 AM	19634
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	t: KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/8/2015 11:30:11 AM	19550
Surr: DNOP	99.1	57.9-140	%REC	1	6/8/2015 11:30:11 AM	19550
EPA METHOD 8015D: GASOLINE RAN				Analyst	t: NSB	
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/5/2015 4:00:26 PM	19545
Surr: BFB	81.0	75.4-113	%REC	1	6/5/2015 4:00:26 PM	19545
EPA METHOD 8021B: VOLATILES					Analyst	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/5/2015 4:00:26 PM	19545
Toluene	ND	0.049	mg/Kg	1	6/5/2015 4:00:26 PM	19545
Ethylbenzene	ND	0.049	mg/Kg	1	6/5/2015 4:00:26 PM	19545
Xylenes, Total	ND	0.098	mg/Kg	1	6/5/2015 4:00:26 PM	19545
Surr: 4-Bromofluorobenzene	94.7	80-120	%REC	1	6/5/2015 4:00:26 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Project: Red Bluff Draw

Lab ID:

Collection Date: 5/28/2015 8:40:00 AM

Client Sample ID: Soil 25 2.5-3.5' RBD

1506117-014 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF Date A	nalyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	:: LGT
Chloride	70	7.5	mg/Kg	5 6/9/201	5 11:24:59 AM	19634
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analyst	: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1 6/8/201	5 11:51:33 AM	19550
Surr: DNOP	95.3	57.9-140	%REC	1 6/8/201	5 11:51:33 AM	19550
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1 6/8/201	5 4:43:40 PM	19545
Surr: BFB	87.4	75.4-113	%REC	1 6/8/201	5 4:43:40 PM	19545
EPA METHOD 8021B: VOLATILES					Analyst	:: NSB
Benzene	ND	0.046	mg/Kg	1 6/7/201	5 3:58:17 PM	19545
Toluene	ND	0.046	mg/Kg	1 6/7/201	5 3:58:17 PM	19545
Ethylbenzene	ND	0.046	mg/Kg	1 6/7/201	5 3:58:17 PM	19545
Xylenes, Total	ND	0.092	mg/Kg	1 6/7/201	5 3:58:17 PM	19545
Surr: 4-Bromofluorobenzene	88.4	80-120	%REC	1 6/7/201	5 3:58:17 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 14 of 38
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 25 3.5-4.0' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:40:00 AM

Lab ID: 1506117-015 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	70	7.5	mg/Kg	5	6/9/2015 11:37:23 AM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 12:13:09 PM	19550
Surr: DNOP	95.7	57.9-140	%REC	1	6/8/2015 12:13:09 PM	19550
EPA METHOD 8015D: GASOLINE R	EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	6/8/2015 5:12:25 PM	19545
Surr: BFB	88.1	75.4-113	%REC	1	6/8/2015 5:12:25 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.047	mg/Kg	1	6/7/2015 4:27:04 PM	19545
Toluene	ND	0.047	mg/Kg	1	6/7/2015 4:27:04 PM	19545
Ethylbenzene	ND	0.047	mg/Kg	1	6/7/2015 4:27:04 PM	19545
Xylenes, Total	ND	0.094	mg/Kg	1	6/7/2015 4:27:04 PM	19545
Surr: 4-Bromofluorobenzene	87.8	80-120	%REC	1	6/7/2015 4:27:04 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506117 Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 26 0-.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/28/2015 8:55:00 AM 1506117-016 Matrix: SOIL Lab ID: Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	180	7.5	mg/Kg	5	6/9/2015 12:39:25 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/8/2015 12:55:55 PM	19550
Surr: DNOP	103	57.9-140	%REC	1	6/8/2015 12:55:55 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	6/8/2015 5:41:09 PM	19545
Surr: BFB	88.0	75.4-113	%REC	1	6/8/2015 5:41:09 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.046	mg/Kg	1	6/7/2015 4:55:48 PM	19545
Toluene	ND	0.046	mg/Kg	1	6/7/2015 4:55:48 PM	19545
Ethylbenzene	ND	0.046	mg/Kg	1	6/7/2015 4:55:48 PM	19545
Xylenes, Total	ND	0.093	mg/Kg	1	6/7/2015 4:55:48 PM	19545
Surr: 4-Bromofluorobenzene	85.2	80-120	%REC	1	6/7/2015 4:55:48 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 16 of 38
 - P
 - Sample pH Not In Range
 - Reporting Detection Limit

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 26 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 8:55:00 AM

 Lab ID:
 1506117-017
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	170	7.5	mg/Kg	5	6/9/2015 12:51:50 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.4	mg/Kg	1	6/8/2015 1:17:19 PM	19550
Surr: DNOP	93.4	57.9-140	%REC	1	6/8/2015 1:17:19 PM	19550
EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2015 6:09:56 PM	19545
Surr: BFB	88.3	75.4-113	%REC	1	6/8/2015 6:09:56 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/7/2015 5:24:33 PM	19545
Toluene	ND	0.050	mg/Kg	1	6/7/2015 5:24:33 PM	19545
Ethylbenzene	ND	0.050	mg/Kg	1	6/7/2015 5:24:33 PM	19545
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2015 5:24:33 PM	19545
Surr: 4-Bromofluorobenzene	87.3	80-120	%REC	1	6/7/2015 5:24:33 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 26 1.5-2.5' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:55:00 AM

Lab ID: 1506117-018 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	110	7.5	mg/Kg	5	6/9/2015 1:04:15 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.6	mg/Kg	1	6/8/2015 1:38:42 PM	19550
Surr: DNOP	98.6	57.9-140	%REC	1	6/8/2015 1:38:42 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 6:38:39 PM	19545
Surr: BFB	88.4	75.4-113	%REC	1	6/8/2015 6:38:39 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2015 8:45:17 PM	19545
Toluene	ND	0.049	mg/Kg	1	6/7/2015 8:45:17 PM	19545
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2015 8:45:17 PM	19545
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2015 8:45:17 PM	19545
Surr: 4-Bromofluorobenzene	88.3	80-120	%REC	1	6/7/2015 8:45:17 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 26 2.5-3.5' RBD

Project: Red Bluff Draw

Collection Date: 5/28/2015 8:55:00 AM

Lab ID: 1506117-019 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	66	7.5	mg/Kg	5	6/9/2015 1:16:40 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/8/2015 1:59:59 PM	19550
Surr: DNOP	101	57.9-140	%REC	1	6/8/2015 1:59:59 PM	19550
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 7:07:25 PM	19545
Surr: BFB	88.0	75.4-113	%REC	1	6/8/2015 7:07:25 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2015 9:14:00 PM	19545
Toluene	ND	0.049	mg/Kg	1	6/7/2015 9:14:00 PM	19545
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2015 9:14:00 PM	19545
Xylenes, Total	ND	0.098	mg/Kg	1	6/7/2015 9:14:00 PM	19545
Surr: 4-Bromofluorobenzene	90.4	80-120	%REC	1	6/7/2015 9:14:00 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 19 of 38
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 27 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 11:00:00 AM

 Lab ID:
 1506117-020
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qı	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	:: LGT
Chloride	310	15	mg/Kg	10	6/10/2015 4:03:22 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	6/8/2015 2:21:18 PM	19550
Surr: DNOP	99.0	57.9-140	%REC	1	6/8/2015 2:21:18 PM	19550
EPA METHOD 8015D: GASOLINE RANGE				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2015 7:36:07 PM	19545
Surr: BFB	85.9	75.4-113	%REC	1	6/8/2015 7:36:07 PM	19545
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/7/2015 9:42:42 PM	19545
Toluene	ND	0.050	mg/Kg	1	6/7/2015 9:42:42 PM	19545
Ethylbenzene	ND	0.050	mg/Kg	1	6/7/2015 9:42:42 PM	19545
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2015 9:42:42 PM	19545
Surr: 4-Bromofluorobenzene	89.6	80-120	%REC	1	6/7/2015 9:42:42 PM	19545

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded

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- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 27 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 11:00:00 AM

 Lab ID:
 1506117-021
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	170	7.5	mg/Kg	5	6/9/2015 1:41:29 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/8/2015 3:04:07 PM	19551
Surr: DNOP	98.7	57.9-140	%REC	1	6/8/2015 3:04:07 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 8:04:45 PM	19577
Surr: BFB	86.5	75.4-113	%REC	1	6/8/2015 8:04:45 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/7/2015 10:11:22 PM	19577
Toluene	ND	0.049	mg/Kg	1	6/7/2015 10:11:22 PM	19577
Ethylbenzene	ND	0.049	mg/Kg	1	6/7/2015 10:11:22 PM	19577
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2015 10:11:22 PM	19577
Surr: 4-Bromofluorobenzene	90.0	80-120	%REC	1	6/7/2015 10:11:22 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 21 of 38
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Client Sample ID: Soil 27 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 11:00:00 AM

 Lab ID:
 1506117-022
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses Result **RL Qual Units DF** Date Analyzed Batch **EPA METHOD 300.0: ANIONS** Analyst: LGT 6/9/2015 1:53:53 PM Chloride 140 7.5 mg/Kg 19634 **EPA METHOD 8015D: DIESEL RANGE ORGANICS** Analyst: KJH Diesel Range Organics (DRO) ND mg/Kg 6/8/2015 4:08:09 PM 19551 9.9 %REC Surr: DNOP 85.8 57.9-140 6/8/2015 4:08:09 PM 19551 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 5.0 mg/Kg 6/8/2015 8:33:33 PM 19577 Surr: BFB 86.1 75.4-113 %REC 6/8/2015 8:33:33 PM 19577 **EPA METHOD 8021B: VOLATILES** Analyst: NSB Benzene ND 0.050 mg/Kg 6/7/2015 10:40:01 PM 19577 Toluene ND 0.050 mg/Kg 1 6/7/2015 10:40:01 PM 19577 Ethylbenzene ND 0.050 mg/Kg 6/7/2015 10:40:01 PM 19577 Xylenes, Total ND 0.099 mg/Kg 6/7/2015 10:40:01 PM 19577 Surr: 4-Bromofluorobenzene 91.2 80-120 %REC 6/7/2015 10:40:01 PM 19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506117

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 27 2.5-3.5' RBD

Project: Red Bluff Draw **Collection Date:** 5/28/2015 11:00:00 AM 1506117-023 Matrix: SOIL Received Date: 6/3/2015 9:03:00 AM Lab ID:

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	160	7.5	mg/Kg	5	6/9/2015 2:06:18 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	10	mg/Kg	1	6/8/2015 4:29:35 PM	19551
Surr: DNOP	92.8	57.9-140	%REC	1	6/8/2015 4:29:35 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2015 9:02:19 PM	19577
Surr: BFB	85.7	75.4-113	%REC	1	6/8/2015 9:02:19 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/7/2015 11:08:41 PM	19577
Toluene	ND	0.050	mg/Kg	1	6/7/2015 11:08:41 PM	19577
Ethylbenzene	ND	0.050	mg/Kg	1	6/7/2015 11:08:41 PM	19577
Xylenes, Total	ND	0.099	mg/Kg	1	6/7/2015 11:08:41 PM	19577
Surr: 4-Bromofluorobenzene	91.8	80-120	%REC	1	6/7/2015 11:08:41 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH Not In Range

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- Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 28 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 12:00:00 PM

 Lab ID:
 1506117-024
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	260	7.5	mg/Kg	5	6/9/2015 2:18:43 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 4:51:01 PM	19551
Surr: DNOP	88.5	57.9-140	%REC	1	6/8/2015 4:51:01 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2015 9:31:05 PM	19577
Surr: BFB	87.4	75.4-113	%REC	1	6/8/2015 9:31:05 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/7/2015 11:37:17 PM	19577
Toluene	ND	0.050	mg/Kg	1	6/7/2015 11:37:17 PM	19577
Ethylbenzene	ND	0.050	mg/Kg	1	6/7/2015 11:37:17 PM	19577
Xylenes, Total	ND	0.10	mg/Kg	1	6/7/2015 11:37:17 PM	19577
Surr: 4-Bromofluorobenzene	91.7	80-120	%REC	1	6/7/2015 11:37:17 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order 1506117

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc

Project: Red Bluff Draw

Client Sample ID: Soil 28 .5-1.5' RBD **Collection Date:** 5/28/2015 12:00:00 PM

Lab ID: 1506117-025 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	210	7.5	mg/Kg	5	6/9/2015 2:31:08 PM	19634
EPA METHOD 8015D: DIESEL RANGE ORGANICS					Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 5:12:23 PM	19551
Surr: DNOP	89.4	57.9-140	%REC	1	6/8/2015 5:12:23 PM	19551
EPA METHOD 8015D: GASOLINE RANGE					Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 9:59:50 PM	19577
Surr: BFB	86.6	75.4-113	%REC	1	6/8/2015 9:59:50 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/8/2015 12:05:52 AM	19577
Toluene	ND	0.049	mg/Kg	1	6/8/2015 12:05:52 AM	19577
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2015 12:05:52 AM	19577
Xylenes, Total	ND	0.098	mg/Kg	1	6/8/2015 12:05:52 AM	19577
Surr: 4-Bromofluorobenzene	92.6	80-120	%REC	1	6/8/2015 12:05:52 AM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 25 of 38
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**

Date Reported: 6/12/2015

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc **Project:** Red Bluff Draw

Client Sample ID: Soil 28 1.5-2.5' RBD **Collection Date:** 5/28/2015 12:00:00 PM

Lab ID: 1506117-026 **Matrix:** SOIL **Received Date:** 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	120	7.5	mg/Kg	5	6/9/2015 3:08:22 PM	19634
EPA METHOD 8015D: DIESEL RAN	EPA METHOD 8015D: DIESEL RANGE ORGANICS					t: KJH
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	6/8/2015 5:55:09 PM	19551
Surr: DNOP	93.8	57.9-140	%REC	1	6/8/2015 5:55:09 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 10:28:33 PM	19577
Surr: BFB	86.8	75.4-113	%REC	1	6/8/2015 10:28:33 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/8/2015 10:28:33 PM	19577
Toluene	ND	0.049	mg/Kg	1	6/8/2015 10:28:33 PM	19577
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2015 10:28:33 PM	19577
Xylenes, Total	ND	0.098	mg/Kg	1	6/8/2015 10:28:33 PM	19577
Surr: 4-Bromofluorobenzene	89.7	80-120	%REC	1	6/8/2015 10:28:33 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 26 of 38
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 29 0-.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 12:35:00 PM

 Lab ID:
 1506117-027
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	: LGT
Chloride	530	15	mg/Kg	10	6/10/2015 4:15:46 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 6:16:28 PM	19551
Surr: DNOP	96.4	57.9-140	%REC	1	6/8/2015 6:16:28 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 10:57:16 PM	19577
Surr: BFB	87.6	75.4-113	%REC	1	6/8/2015 10:57:16 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.049	mg/Kg	1	6/8/2015 10:57:16 PM	19577
Toluene	ND	0.049	mg/Kg	1	6/8/2015 10:57:16 PM	19577
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2015 10:57:16 PM	19577
Xylenes, Total	ND	0.099	mg/Kg	1	6/8/2015 10:57:16 PM	19577
Surr: 4-Bromofluorobenzene	90.3	80-120	%REC	1	6/8/2015 10:57:16 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 27 of 38
- P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 29 .5-1.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 12:35:00 PM

 Lab ID:
 1506117-028
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qual Units		DF	Batch	
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	140	7.5	mg/Kg	5	6/9/2015 3:33:11 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	st: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 6:38:07 PM	19551
Surr: DNOP	94.8	57.9-140	%REC	1	6/8/2015 6:38:07 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	st: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	6/8/2015 11:25:57 PM	19577
Surr: BFB	86.7	75.4-113	%REC	1	6/8/2015 11:25:57 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	st: NSB
Benzene	ND	0.049	mg/Kg	1	6/8/2015 11:25:57 PM	19577
Toluene	ND	0.049	mg/Kg	1	6/8/2015 11:25:57 PM	19577
Ethylbenzene	ND	0.049	mg/Kg	1	6/8/2015 11:25:57 PM	19577
Xylenes, Total	ND	0.098	mg/Kg	1	6/8/2015 11:25:57 PM	19577
Surr: 4-Bromofluorobenzene	89.2	80-120	%REC	1	6/8/2015 11:25:57 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 29 1.5-2.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 12:35:00 PM

 Lab ID:
 1506117-029
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	130	7.5	mg/Kg	5	6/9/2015 3:45:35 PM	19634
EPA METHOD 8015D: DIESEL RANGE	ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	6/8/2015 6:59:29 PM	19551
Surr: DNOP	95.3	57.9-140	%REC	1	6/8/2015 6:59:29 PM	19551
EPA METHOD 8015D: GASOLINE RAN				Analys	t: NSB	
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/8/2015 11:54:36 PM	19577
Surr: BFB	86.3	75.4-113	%REC	1	6/8/2015 11:54:36 PM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/8/2015 11:54:36 PM	19577
Toluene	ND	0.050	mg/Kg	1	6/8/2015 11:54:36 PM	19577
Ethylbenzene	ND	0.050	mg/Kg	1	6/8/2015 11:54:36 PM	19577
Xylenes, Total	ND	0.10	mg/Kg	1	6/8/2015 11:54:36 PM	19577
Surr: 4-Bromofluorobenzene	88.5	80-120	%REC	1	6/8/2015 11:54:36 PM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 29 of 38
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Lab Order **1506117**Date Reported: **6/12/2015**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: GL Environmental Inc Client Sample ID: Soil 29 2.5-3.5' RBD

 Project:
 Red Bluff Draw
 Collection Date: 5/28/2015 12:35:00 PM

 Lab ID:
 1506117-030
 Matrix: SOIL
 Received Date: 6/3/2015 9:03:00 AM

Analyses	Result	RL Qu	al Units	DF	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	120	7.5	mg/Kg	5	6/9/2015 3:58:00 PM	19634
EPA METHOD 8015D: DIESEL RAN	GE ORGANICS				Analys	t: KJH
Diesel Range Organics (DRO)	ND	9.9	mg/Kg	1	6/8/2015 7:20:56 PM	19551
Surr: DNOP	91.4	57.9-140	%REC	1	6/8/2015 7:20:56 PM	19551
EPA METHOD 8015D: GASOLINE R	ANGE				Analys	t: NSB
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	6/9/2015 12:23:24 AM	19577
Surr: BFB	86.6	75.4-113	%REC	1	6/9/2015 12:23:24 AM	19577
EPA METHOD 8021B: VOLATILES					Analys	t: NSB
Benzene	ND	0.050	mg/Kg	1	6/9/2015 12:23:24 AM	19577
Toluene	ND	0.050	mg/Kg	1	6/9/2015 12:23:24 AM	19577
Ethylbenzene	ND	0.050	mg/Kg	1	6/9/2015 12:23:24 AM	19577
Xylenes, Total	ND	0.099	mg/Kg	1	6/9/2015 12:23:24 AM	19577
Surr: 4-Bromofluorobenzene	89.4	80-120	%REC	1	6/9/2015 12:23:24 AM	19577

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit Page 30 of 38
 - P Sample pH Not In Range
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1506117

12-Jun-15

Client: Project:	GL Envi	ronmental l ff Draw	Inc								
	MB-19614		ype: ME					300.0: Anior	ıs		
Client ID:	PBS		ID: 19			RunNo: 26693					
Prep Date:	6/8/2015	Analysis D	ate: 6/	8/2015	SeqNo: 795349			Units: mg/Kg			
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-19614	SampT	ype: LC	s	Tes	tCode: El	PA Method	300.0: Anior	ns		
Client ID:	LCSS	Batch	ID: 19	614	F	RunNo: 2	6693				
Prep Date:	6/8/2015	Analysis D	ate: 6/	8/2015	S	SeqNo: 7	95350	Units: mg/k	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		15	1.5	15.00	0	98.5	90	110			
Sample ID	MB-19634	SampT	уре: МЕ	BLK	Tes	tCode: El	PA Method	300.0: Anior	ns		
Client ID:	PBS	Batch	ID: 19	634	F	RunNo: 2	6721				
Prep Date:	6/9/2015	Analysis D	ate: 6/	9/2015	S	SeqNo: 7	96436	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-19634	SampT	ype: LC	s	Tes	tCode: El	PA Method	300.0: Anior	ıs		
Client ID:	LCSS	Batch	ID: 19	634	F	RunNo: 2	6721				
Prep Date:	6/9/2015	Analysis D	ate: 6/	9/2015	S	SeqNo: 7	96437	Units: mg/k	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	95.6	90	110			
Sample ID	1506117-012AMS	SampT	уре: М \$	<u></u>	Tes	tCode: El	PA Method	300.0: Anior	ns		
Client ID:	Soil 25 .5-1.5' RB	D Batch	ID: 19	634	F	RunNo: 2	6721				
Prep Date:	6/9/2015	Analysis D	ate: 6/	9/2015	S	SeqNo: 7	96439	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		91	7.5	15.00	80.73	70.0	64.2	131			
Sample ID	1506117-012AMS	D SampT	уре: М \$	SD	Tes	tCode: El	PA Method	300.0: Anior	ns		
Client ID:	Soil 25 .5-1.5' RB	D Batch	ID: 19	634	F	RunNo: 2	6721				
Prep Date:	6/9/2015	Analysis D	ate: 6/	9/2015	S	SeqNo: 7	96440	Units: mg/l	K g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		97	7.5	15.00	80.73	107	64.2	131	5.97	20	

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

- Е Value above quantitation range
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- J Analyte detected below quantitation limits
- В Analyte detected in the associated Method Blank
- Η Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506117**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID 1506117-015AMS SampType: MS TestCode: EPA Method 300.0: Anions

Client ID: Soil 25 3.5-4.0' RBD Batch ID: 19634 RunNo: 26721

Prep Date: 6/9/2015 Analysis Date: 6/9/2015 SeqNo: 796444 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Chloride S 92 7.5 15.00 69.56 152 64.2 131

Sample ID 1506117-015AMSD SampType: MSD TestCode: EPA Method 300.0: Anions

Client ID: Soil 25 3.5-4.0' RBD Batch ID: 19634 RunNo: 26721

Prep Date: 6/9/2015 Analysis Date: 6/9/2015 SeqNo: 796445 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Chloride 83 7.5 15.00 69.56 88.0 64.2 131 10.9 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: 1506117

12-Jun-15

Project:	Red Bluf	f Draw									
Sample ID	MB-19551	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 19	551	F	RunNo: 20	6640				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	5/2015	5	SeqNo: 79	93476	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
=	Organics (DRO)	ND	10								
Surr: DNOP		9.4		10.00		93.8	57.9	140			
Sample ID	LCS-19551	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 19	551	F	RunNo: 20	6640				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	5/2015	9	SeqNo: 79	93477	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
_	Organics (DRO)	42	10	50.00	0	84.8	67.8	130			
Surr: DNOP		4.2		5.000		83.3	57.9	140			
Sample ID	MB-19550	SampTy	pe: ME	BLK	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	PBS	Batch	ID: 19	550	F	RunNo: 20	6641				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	5/2015	5	SeqNo: 79	93479	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range (Surr: DNOP	Organics (DRO)	ND 9.1	10	10.00		91.1	57.9	140			
Sample ID	1506117-001AMS	SampTy	pe: M \$	 3	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	Soil 23 05' RBD	Batch	ID: 19	550	F	RunNo: 20	6640				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	5/2015	5	SeqNo: 79	93585	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range	Organics (DRO)	41	9.6	48.03	0	85.9	42.3	146			
Surr: DNOP		4.3		4.803		90.5	57.9	140			
Sample ID	1506117-001AMSI	D SampTy	pe: M \$	SD	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	Soil 23 05' RBD	Batch	ID: 19	550	F	RunNo: 20	6640				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	5/2015	5	SeqNo: 79	93749	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
0	Organics (DRO)	40	9.6	47.98	0	83.4	42.3	146	3.05	28.9	
Surr: DNOP		4.2		4.798		88.0	57.9	140	0	0	
Sample ID	LCS-19550	SampTy	pe: LC	s	Tes	tCode: El	PA Method	8015D: Dies	el Range (Organics	
Client ID:	LCSS	Batch	ID: 19	550	F	RunNo: 20	6689				
Prep Date:	6/3/2015	Analysis Da	ate: 6/	8/2015	5	SeqNo: 79	95160	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506117**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID LCS-19550 SampType: LCS TestCode: EPA Method 8015D: Diesel Range Organics Client ID: LCSS Batch ID: 19550 RunNo: 26689 Analysis Date: 6/8/2015 Prep Date: 6/3/2015 SeqNo: 795160 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 10 58 50.00 0 116 67.8 130 Surr: DNOP 5.000 S 7.3 145 57.9 140

TestCode: EPA Method 8015D: Diesel Range Organics Sample ID 1506117-021AMS SampType: MS Soil 27 .5-1.5' RBD Batch ID: 19551 RunNo: 26673 Prep Date: 6/3/2015 Analysis Date: 6/8/2015 SeqNo: 795193 Units: mg/Kg LowLimit Analyte Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 10 50.05 0 93.5 42.3 146 Surr: DNOP 5.005 90.1 4.5 57.9 140

Sample ID 1506117-021AMSD SampType: MSD TestCode: EPA Method 8015D: Diesel Range Organics Client ID: Soil 27 .5-1.5' RBD Batch ID: 19551 RunNo: 26673 Prep Date: 6/3/2015 Analysis Date: 6/8/2015 SeqNo: 795194 Units: mg/Kg SPK value SPK Ref Val %RPD %REC **RPDLimit** Qual Analyte Result **PQL** LowLimit HighLimit Diesel Range Organics (DRO) 48 10 50.40 94.4 42.3 146 1.68 28.9 Surr: DNOP 4.7 5.040 93.0 57.9 140 0 0

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Client:

Hall Environmental Analysis Laboratory, Inc.

GL Environmental Inc

WO#: **1506117**

12-Jun-15

Project:	Red Bluf	f Draw	пс								
Sample ID	MB-19545	SampT	ype: Mi	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	PBS	Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	/5/2015	9	SeqNo: 7	94163	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 850	5.0	1000		84.9	75.4	113			
Sample ID	LCS-19545	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	LCSS	Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	/5/2015	5	SeqNo: 7	94164	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	26 950	5.0	25.00 1000	0	105 94.7	64 75.4	130 113			
Sample ID	1506117-002AMS	SampT	ype: M \$	S	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	Soil 23 .5-1.5' RBI	D Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	/5/2015	5	SeqNo: 7	94167	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	32 940	4.7	23.72 948.8	0	137 99.0	47.9 75.4	144 113			
Sample ID	1506117-002AMSI	D SampT	ype: MS	SD	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	е	
Client ID:	Soil 23 .5-1.5' RBI	D Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date:	6/3/2015	Analysis D	ate: 6/	/5/2015	5	SeqNo: 7	94168	Units: mg/k	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	30 930	4.7	23.74 949.7	0	128 97.4	47.9 75.4	144 113	6.10 0	29.9 0	
Sample ID	MB-19577	SampT	vpe: ME	BLK	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	<u> </u>	
Client ID:	PBS		ID: 19			RunNo: 2			J		
Prep Date:	6/4/2015	Analysis D	ate: 6/	/8/2015	5	SeqNo: 7	95091	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Rang Surr: BFB	e Organics (GRO)	ND 870	5.0	1000		86.7	75.4	113			
Sample ID	LCS-19577	SampT	ype: LC	s	Tes	tCode: E	PA Method	8015D: Gaso	oline Rang	e	
Client ID:	LCSS	Batch ID: 19577			RunNo: 26687						
Prep Date:	6/4/2015	Analysis D	ate: 6/	/8/2015	5	SeqNo: 7	95092	Units: mg/h	(g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- D. Commission of the Domes
- P Sample pH Not In Range

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RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: **1506117**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID LCS-19577 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range
Client ID: LCSS Batch ID: 19577 RunNo: 26687

Prep Date: **6/4/2015** Analysis Date: **6/8/2015** SeqNo: **795092** Units: **mg/Kg**

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Gasoline Range Organics (GRO)
 28
 5.0
 25.00
 0
 112
 64
 130

 Surr: BFB
 930
 1000
 93.1
 75.4
 113

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506117**

12-Jun-15

Client:	GL Environmental Inc
Project:	Red Bluff Draw

Sample ID MB-19545	SampType: MBLK			Tes	tCode: El					
Client ID: PBS	Batch ID: 19545			R	RunNo: 2					
Prep Date: 6/3/2015	Analysis D	ate: 6/	5/2015	S	94190	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.90		1.000		89.7	80	120			

Sample ID LCS-19545	SampT	ype: LC	S	Tes									
Client ID: LCSS	Client ID: LCSS Batch ID: 19545						RunNo: 26660						
Prep Date: 6/3/2015	Analysis D	Date: 6/	5/2015	SeqNo: 794191			Units: mg/K	ζg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	1.0	0.050	1.000	0	104	76.6	128						
Toluene	1.0	0.050	1.000	0	104	75	124						
Ethylbenzene	1.1	0.050	1.000	0	106	79.5	126						
Xylenes, Total	3.1	0.10	3.000	0	104	78.8	124						
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120						

Sample ID 1506117-001AMS	Samp1	SampType: MS TestCode: EPA Method 8021B: Volatiles								
Client ID: Soil 23 05' RBD	Batcl	ch ID: 19545 RunNo: 26660								
Prep Date: 6/3/2015	Date: 6/3/2015 Analysis Date: 6/5/2015						SeqNo: 794193 Units: mg/l			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.048	0.9560	0	123	69.2	126			
Toluene	1.2	0.048	0.9560	0	127	65.6	128			
Ethylbenzene	1.2	0.048	0.9560	0	128	65.5	138			
Xylenes, Total	3.6	0.096	2.868	0	126	63	139			
Surr: 4-Bromofluorobenzene	0.94		0.9560		98.4	80	120			

Sample ID 1506117-001AMS	D SampT	SampType: MSD TestCode: EPA Method 8021B: Volatiles								
Client ID: Soil 23 05' RBD	Batch	ID: 19	545	F	RunNo: 2	6660				
Prep Date: 6/3/2015	Analysis D	alysis Date: 6/5/2015 SeqNo: 794194 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.2	0.048	0.9551	0	127	69.2	126	3.11	18.5	S
Toluene	1.2	0.048	0.9551	0	130	65.6	128	2.76	20.6	S
Ethylbenzene	1.3	0.048	0.9551	0	133	65.5	138	3.80	20.1	
Xylenes, Total	3.7	0.096	2.865	0	130	63	139	3.58	21.1	
Surr: 4-Bromofluorobenzene	0.95		0.9551		99.6	80	120	0	0	

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: **1506117**

12-Jun-15

Client: GL Environmental Inc
Project: Red Bluff Draw

Sample ID MB-19577 SampType: MBLK TestCode: EPA Method 8021B: Volatiles **PBS** Client ID: Batch ID: 19577 RunNo: 26664 Prep Date: 6/4/2015 Analysis Date: 6/7/2015 SeqNo: 794388 Units: mg/Kg Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Benzene ND 0.050 Toluene ND 0.050 Ethylbenzene ND 0.050 ND Xylenes, Total 0.10 Surr: 4-Bromofluorobenzene 0.94 1.000 94.3 80 120

Sample ID LCS-19577	SampT	ype: LC	s	Tes							
Client ID: LCSS	Batcl	Batch ID: 19577 RunNo: 26664									
Prep Date: 6/4/2015	Analysis D	oate: 6/	7/2015	S	SeqNo: 7	94389	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.81	0.050	1.000	0	81.3	76.6	128				
Toluene	0.80	0.050	1.000	0	79.9	75	124				
Ethylbenzene	0.81	0.050	1.000	0	81.2	79.5	126				
Xylenes, Total	2.4	0.10	3.000	0	80.0	78.8	124				
Surr: 4-Bromofluorobenzene	0.95		1.000		94.6	80	120				

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH Not In Range
- RL Reporting Detection Limit

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Hali Environmental Analysis Loboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Work Order Number: 1506117 RcptNo: 1 GL Environmental Inc Client Name: 15 06/03/15 Received by/date: alin Som 6/3/2015 9:03:00 AM Celina Sessa Logged By: 6/3/2015 9:18:58 AM Completed By: Celina Sessa Reviewed By: 06/04/15 Chain of Custody Not Present V 1. Custody seals intact on sample bottles? Not Present 2. Is Chain of Custody complete? FedEx 3. How was the sample delivered? Log In NA 🗌 Yes V No 🗌 4. Was an attempt made to cool the samples? NA 🗌 No Were all samples received at a temperature of >0° C to 6.0°C No _ Sample(s) in proper container(s)? Yes V Yes V No 7. Sufficient sample volume for indicated test(s)? 8. Are samples (except VOA and ONG) properly preserved? No V NA 🗌 9. Was preservative added to bottles? Yes No VOA Vials 🗸 No _ Yes 10. VOA vials have zero headspace? No V Yes 11. Were any sample containers received broken? # of preserved bottles checked for pH: No 🗌 12. Does paperwork match bottle labels? (<2 or >12 unless noted) (Note discrepancies on chain of custody) Adjusted? No Yes 🗸 13. Are matrices correctly identified on Chain of Custody? No 🗌 14, Is it clear what analyses were requested? No Checked by: Yes 🗸 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes NA V 16. Was client notified of all discrepancies with this order? No _ Date Person Notified: By Whom: Via: Phone Fax Regarding: Client Instructions: 17. Additional remarks: 18. Cooler Information Seal Intact | Seal No Cooler No Temp °C Condition Seal Date Signed By 2.1 Good Yes

ENVIRONMENTAL	ANALYSIS LABORATORY	www.hallenvironmental.com	- Albuquerque, NM 87109	Fax 505-345-4107	Analysis Request		S' [†] C) -	808	8 .EO .\ 8 (AC	Plate Application Application DV-i	RCRA 8 Ma Aniona (FC 8081 Pestid 8260B (VO 8270 (Sem	· ×														Time: Relinquished by: Date Time
HAL	ANA	www.h	4901 Hawkins NE	Tel. 505-345-3975		(ʎjuc	SB C	(G)	нч. О√((1.	г + БЯ 118	oq 6 oq 7 OQ 7	EDB (Metha TPH 8015B TEX + MT	4											7	Remarks:		
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Time	Z Standard	Project Name:	Red Bluff Draw			Project Manager:		Matt bank	Sampler: ML, ST,		Sample Temperature: 📿	Container Preservative Type and # Type	Under 1 : ce											~ ~	Received by:	aline Sur- 6	Received by:
Chain-of-Custody Record		ہے		Artustial Dr. las Veger Am 887 81	0830	AchaneT	→	☐ Level 4 (Full Validation)		111.20	S	Sample Request ID	S: 113 0-5 RRD 4	151-2	15.75'	25-35	15.4D	1 24 05'	 	1,5.2.51	25-3.51	104-55	5:125 05'	7,			d by:
Chain-of-Cus		IL ENCIPPARENTE	Mailing Address:	121 Bibb Indust	Phone #: 505 - 454-	email or Fax#: of Ma IID	QA/QC Package:	Standard	ou	☐ NELAP ☐ Other	□ EDD (Type)	Date Time Matrix	1881				-7	0820					0480	->	Date: Time: Relinquished by	1415 (OPO) SIP	Date: Time: Relinquished by

Air Bubbles (Y or N) **ANALYSIS LABORATORY** HALL ENVIRONMENTAL 4901 Hawkins NE - Albuquerque, NM 87109 Fax 505-345-4107 (AOV-ima2) 07S8 www.hallenvironmental.com **Analysis Request** (AOV) 809S8 8081 Pesticides / 8082 PCB's ¥ ϬͿʹͿͿʹͿϴ϶ʹ·Ͷϴͽ·ʹϧϴͼ·ʹϩϴͼͿ RCRA 8 Metals Tel. 505-345-3975 (SMIS 07S8 to 01S8) a'HA9 EDB (Method 504.1) (Nethod 418.1) (ОЯМ \(ФЯФ) (БЯЭ) 82108 НЯТ Remarks: BTEX + MTBE + TPH (Gas only) BTEX)+ MTBE + TMB's (8021) 06/13/15 0903 450 SILS 1024 522--023 Time -020 019 1001 101 1018 HEAL No. 10--015 1010 1506 117 1013 Date Date 2 0 8.70 Preservative □ Rush - Larve Type Sampler: ML 73 Sample Temperature: Sol NXYes NXYes Turn-Around Time: Project Manager: Project Name: Z Standard 115-25 RBD 42-66512 Type and # Container Received by: Received by: ~0 ~0 MA 21 Bilb Industrial Dr. Las Vapas, NM 8870 ject #. On Ice: gg gg 25 ☐ Level 4 (Full Validation) Sample Request ID 25-35 Chain-of-Custody Record 35-40 1.5-255 28.35 545 15-25 2535 soil 26 0.5' 05-15° 0--5' email or Fax#: q/ma/Il@ /desh. Ne/ Phone #: 505 - 454 - 0830 Soi 25 7 Saviran manía <u>چ</u> Relinquished by Other Matrix 50. Soi 0840 Soil 3/2/15 09@ Date: Time: Mailing Address: 0855 Time QA/QÇ Package: Time: □ EDD (Type) Accreditation Z Standard □ NELAP 128/15 [28][S 12815 Date

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

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Mailing Address:			Red Bluff D.	Lunz		4901 Hawkins NE -	lawkin	SNE		nerqu	e, NN	Albuquerque, NM 87109			
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